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# OFFICIAL REGISTER OF HARVARD UNIVERSITY

VOL. XXIX    OCTOBER 17, 1932    NO. 42

## THE HARVARD MEDICAL SCHOOL

LONGWOOD AVENUE, BOSTON, MASS.

1932-33

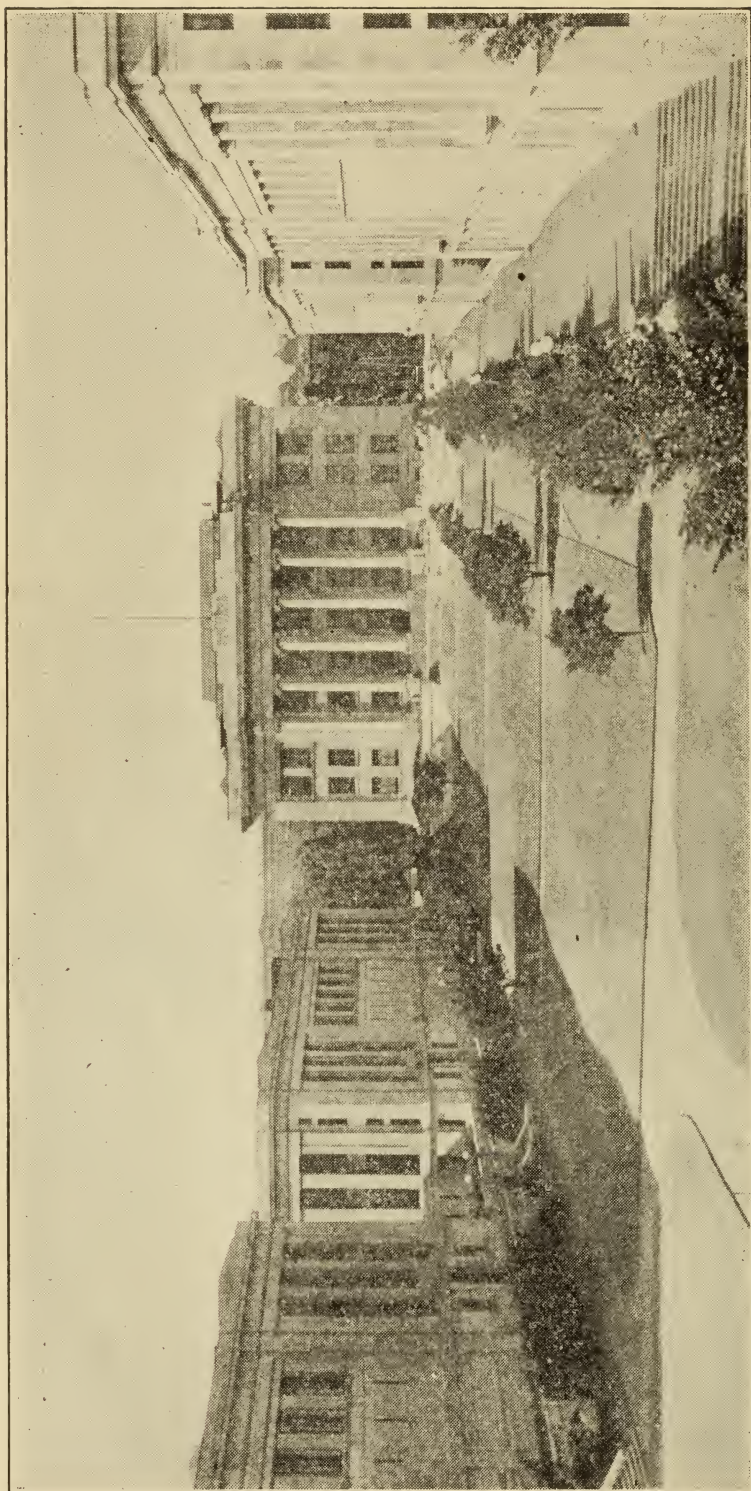
WITH AN ANNOUNCEMENT FOR 1933-34



PUBLISHED BY HARVARD UNIVERSITY



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HARVARD MEDICAL SCHOOL



ANNOUNCEMENT  
OF THE  
MEDICAL SCHOOL  
LONGWOOD AVENUE, BOSTON, MASS.  
OF  
HARVARD UNIVERSITY  
FOR  
1932—33

WITH AN ANNOUNCEMENT FOR 1933—34



PUBLISHED BY THE UNIVERSITY

## NOTE

BECAUSE this catalogue closed for the press in October, 1932, the information it contains is not in every case correct for the entire academic year 1932-1933. In general the descriptive chapters have been revised as of July, and the lists of officers and students by departments as of October.



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1932

## JULY

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1933

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## MEDICAL SCHOOL CALENDAR

### 1932

- Sept. 23, Friday.* Registration of first year students.
- Sept. 26, Monday.* **Academic Year begins.** Registration of second, third, and fourth year students. Payment of the first instalment of the tuition fee is required on this date.
- Oct. 12, Wednesday.* Columbus Day : a holiday.
- Nov. 11, Friday.* Armistice Day : a holiday.
- Nov. 24, Thursday.* Thanksgiving Day : a holiday.
- Nov. 30, Wednesday.* Payment of the second instalment of the tuition fee is required on or before this date.
- Dec. 1, Thursday.* Last day for receiving applications for the Cheever, Greene, and Haven Scholarships.

RECESS FROM DEC. 23, 1932 TO JAN. 2, 1933 INCLUSIVE

### 1933

- Jan. 30, Monday.* **Second half-year begins.** Payment of the third instalment of the tuition fee is required on or before this date.
- Feb. 22, Wednesday.* Washington's Birthday : a holiday.
- March 1, Wednesday.* Last day for receiving applications for the Bullard, James Jackson Cabot, and Moseley Travelling Fellowships.
- April 1, Saturday.* Last day for receiving dissertations for the Bowdoin Prizes and the Toppan Biennial Prize.

RECESS FROM APRIL 2 TO APRIL 9, INCLUSIVE

- April 19, Wednesday.* Patriots' Day : a holiday.
- April 29, Saturday.* Payment of the fourth instalment of the tuition fee is required on or before this date.
- May 1, Monday.* Last day for receiving dissertations for the Dante and Sumner Prizes.

*May 1, Monday.* Last day for receiving applications for Scholarships for 1933-34 (except the Cheever, Greene, and Haven Scholarships).

Last day for receiving applications of candidates for the degree of M.D. in 1933.

*May 30, Tuesday.* Memorial Day : a holiday.

*June 22, Thursday.* **Commencement.**

SUMMER VACATION FROM COMMENCEMENT TO SEPTEMBER 24 INCLUSIVE



# THE PRESIDENT AND FELLOWS OF HARVARD COLLEGE

This Board is commonly known as the CORPORATION.

## PRESIDENT

ABBOTT LAWRENCE LOWELL, A.B., LL.B., LL.D., LITT.D.,  
L.H.D. 17 Quincy St., Cambridge

## FELLOWS

THOMAS NELSON PERKINS, A.B., LL.B., LL.D.  
50 Federal St., Boston

CHARLES PELHAM CURTIS, JR., A.B., LL.B.  
47 Ames Building, Boston

JEREMIAH SMITH, JR., A.B., LL.B. 4 Berkeley St., Cambridge

ROGER IRVING LEE, A.B., M.D. 264 Beacon St., Boston

GRENVILLE CLARK, A.B., LL.B. 31 Nassau St., New York, N. Y.

## TREASURER

HENRY LEE SHATTUCK, A.B., LL.B. 24 Milk St., Boston

## DEPUTY TREASURER

JOHN WILBER LOWES, A.B. 24 Milk St., Boston

## SECRETARY TO THE CORPORATION

FRANCIS WELLES HUNNEWELL, A.B., LL.B.  
5 University Hall, Cambridge

## THE BOARD OF OVERSEERS

---

The PRESIDENT and the TREASURER of the University, *ex officio*, and the following persons by election : —

### 1933\*

JULIAN WILLIAM MACK, LL.B.

1220 Woolworth Building, New York, N. Y.

NATHAN HAYWARD, A.B., S.B.

308 Chestnut St., Philadelphia, Pa.

JAMES HANDASYD PERKINS, A.B.

22 William St., New York, N. Y.

ROGER WOLCOTT, A.B., LL.B.

60 State St., Boston

EDWARD MALLINCKRODT, JR., A.M.

3600 North Second St., St. Louis, Mo.

### 1934

HOMER GAGE, A.M., M.D., D.ENG.

8 Chestnut St., Worcester

JOSEPH LEE, A.B., A.M., LL.B., LL.D.

96 Mt. Vernon St., Boston

JESSE ISIDOR STRAUS, A.B.

1317 Broadway, New York, N. Y.

MARK SULLIVAN, A.B., LL.B.

1700 Eye St., N. W., Washington, D. C.

LEVERETT SALTONSTALL, A.B., LL.B.

608 Shawmut Bank Building, Boston

### 1935

CHARLES ALLERTON COOLIDGE, A.B., ART.D.

122 Ames Bldg., Boston

WILLIAM SYDNEY THAYER, A.B., M.D., LL.D., S.D.

1208 Eutaw Place, Baltimore, Md.

HUGH CABOT, A.B., M.D., LL.D.

Mayo Clinic, Rochester, Minn.

HENRY JAMES, A.B., LL.B.

36 W. 44th St., New York, N. Y.

WILLIAM TUDOR GARDINER, A.B., LL.D.

Gardiner, Me.

\* The term expires, in each case, on Commencement Day of the year indicated.



## 1936

CHARLES FRANCIS ADAMS, A.B., LL.B., LL.D.

Navy Department, Washington, D. C.

LEARNED HAND, A.M., LL.B., LL.D.

Old Post Office Building, New York, N. Y.

SAMUEL SMITH DRURY, A.B., Litt.D., S.T.B., D.D., S.T.D.

St. Paul's School, Concord, N. H.

WALTER SHERMAN GIFFORD, A.B., LL.D., S.D.

195 Broadway, New York, N. Y.

ELIHU ROOT, JR., A.B., LL.B.

31 Nassau St., New York, N. Y.

## 1937

GEORGE RUSSELL AGASSIZ, A.B.

Newport, R. I.

ALLSTON BURR, A.M.

60 State St., Boston

DWIGHT PARKER ROBINSON, A.B., S.B.

112 N. Broad St., Philadelphia, Pa.

FREDERICK WINSOR, A.B.

Middlesex School, Concord

WILLIAM PHILLIPS, A.M., LL.D.

Department of State, Washington, D. C.

## 1938

MINOT SIMONS, A.M., S.T.B., D.D.

64 East 86th St., New York, N. Y.

DANIEL FISKE JONES, A.B., M.D.

195 Beacon St., Boston

ALBERT ARNOLD SPRAGUE, A.B.

1130 Lake Shore Drive, Chicago, Ill.

GEORGE WHITNEY, A.B.

23 Wall St., New York, N. Y.

FRANCIS PARKMAN, A.M., Ph.D.

Southborough

---

SECRETARY OF THE BOARD OF OVERSEERS

WINTHROP HOWLAND WADE, A.M., LL.B.

50 Congress St., Boston

## ADMINISTRATIVE OFFICERS OF THE MEDICAL SCHOOL

*President:* A. LAWRENCE LOWELL, A.B., LL.B., LL.D., LITT.D., L.H.D.  
Office, 5 University Hall, Cambridge.

*Dean:* DAVID L. EDSALL, M.D., S.D.  
Office, Administration Building, Medical School. Office hours by appointment.

*Assistant Dean:* WORTH HALE, M.D.  
Office, Administration Building, Medical School. Office hours, Monday, Tuesday, Wednesday, and Friday, 4 to 5 P.M., and by appointment.

*Secretary:* Mrs. Florence I. Honeij, A.M.  
Office, Room 101, Administration Building, Medical School.

*Chairman of the Division of Medical Sciences of the Faculty of Arts and Sciences:* REID HUNT, M.D., PH.D., S.D., Harvard Medical School.  
Office hours by appointment.

*Physician to Students:* REGINALD FITZ, M.D.

*Assistant Physician to Students:* JOHN M. FLYNN, M.D.  
Office hours, daily, except Saturdays, 1-2 P.M., Room 103, Bldg A., Harvard Medical School. Telephone, Longwood 5260.

*The Bursar's Office* is in Lehman Hall, Cambridge. It is open on all business days from 9 A.M. to 5 P.M., except Saturdays, when it is open from 9 A.M. to 1 P.M. for the receipt of fees, payments, and other financial business.

## ADMINISTRATIVE BOARD

PRESIDENT, A. LAWRENCE LOWELL, A.B., LL.B., LL.D., LITT.D., L.H.D. (*ex officio*).

DEAN, DAVID L. EDSALL, M.D., S.D. (*ex officio*), *Chairman*.

HENRY A. CHRISTIAN, M.D., A.M., S.D., LL.D., *Professor of Medicine*.

WALTER B. CANNON, M.D., S.D., LL.D., *Professor of Physiology*.

EDWIN A. LOCKE, M.D., *Clinical Professor of Medicine*.

S. BURT WOLBACH, M.D., *Professor of Pathology*.

HANS ZINSSER, M.D., S.D., *Professor of Bacteriology and Immunology*.

WORTH HALE, M.D., *Associate Professor of Pharmacology*.

KENNETH D. BLACKFAN, M.D., *Professor of Pediatrics*.

FREDERICK C. IRVING, M.D., *Professor of Obstetrics*.

ELLIOTT C. CUTLER, M.D., *Professor of Surgery*.

STANLEY COBB, M.D., *Professor of Neuropathology*.

GEORGE B. WISLOCKI, M.D., *Professor of Anatomy*.

EDWIN J. COHN, Ph.D., *Associate Professor of Physical Chemistry*.

EDWARD D. CHURCHILL, M.D., *Professor of Surgery*.

# HARVARD MEDICAL SCHOOL BOSTON

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## REQUIREMENTS FOR ADMISSION

All candidates must present evidence satisfactory to the Committee on Admission not simply that they have passed the courses necessary to fulfil the requirements, but also that their scholarship and their general qualifications for medicine are such as to give promise of work of high quality in the medical course.

On the above basis this School considers, for admission to its classes, graduates in arts or in science of *approved* colleges or scientific schools.

In exceptional cases applicants without a degree who have completed two or more years of work in a college or scientific school of high rank, provided they present certificates that they have scholastic standing placing them in the first third of their class, may be admitted.

Credentials from foreign universities, in most cases, must be supplemented by a year or more of work in an American university. Admission cannot be assured, as all classes are limited.

## LANGUAGE AND SCIENCE REQUIREMENTS \*

(a) All applicants must present evidence that they have such knowledge of English as is ordinarily required of all candidates for a degree in an approved college and that they have a reading knowledge of French or of German.

(b) They must present evidence that they have *college credits* for at least a year's work in general inorganic chemistry, in physics, in biology, and in organic chemistry.

To meet the science requirements satisfactorily, time credit in college should be secured as follows:

Inorganic Chemistry: A minimum of eight semester hours, of which at least four should be laboratory work.

Organic Chemistry: A minimum of eight semester hours, of which at least four should be laboratory work.

\* It is assumed that before admission to an acceptable college a four years' course in High School or its equivalent will have been completed.

Physics: A minimum of eight semester hours, of which at least two should be laboratory work.

Biology: A minimum of eight semester hours (including not less than four hours of zoölogy), of which at least four should be laboratory work.

NOTE. — A semester hour is one hour of lecture or recitation, or two hours of laboratory work, per week for one half-year or sixteen weeks. Full courses at Harvard count as eight semester hours.

(c) They must have taken the Aptitude Test of the Association of American Medical Colleges.

These requirements must be satisfied in full before matriculation.

Applications for the first year class should be filed as early as November and be completed not later than March 1, on blanks furnished by the Assistant Dean. The Committee makes a selection in February and in March, accepting one hundred and twenty-five men from about eight hundred applicants.

### ADMISSION TO ADVANCED STANDING

By increasing the third year class to one hundred and thirty-five men, ten places are available for transfers from other medical schools. There may be a few additional vacancies caused by the withdrawal of men from the first and second year classes. In exceptional cases men may be admitted to the second and fourth year classes. They must be vouched for as promising men by the Dean or by some other responsible officer of the School from which they come and must furnish a certificate showing time spent in medical study at least equal to that spent by the class to which they seek admission.

Only men of high scholastic standing will be considered. Full credit for work done elsewhere will be allowed as a rule but in certain cases additional work, especially in clinical pathology and in physical diagnosis, will be required.

Applications may be obtained at the Dean's office after November 1 and must be completed before February 1.

### GENERAL REGULATIONS

First year students will register in the amphitheatre in Building C, on the Friday preceding the last Wednesday in September, at 10 A.M.

On entrance, each student will be interviewed by a member of the teaching staff and then assigned to an adviser. The relation between students and advisers is outside regular school duties.

A brief thesis is required of all matriculants as part of their necessary work. The thesis must be handed in to the Dean's Office not later than



May 15 of the student's third year. The Assistant Dean may be consulted in regard to a suitable thesis subject.

*In order that the time of study shall count as a full year, students of all upper classes must register on Monday, the first day of the session:*

<i>Second Year</i>	. . . . .	9.15 A.M.
<i>Third Year</i>	. . . . .	10.15 A.M.
<i>Fourth Year</i>	. . . . .	11.15 A.M.

For special and approved purposes students may be allowed to take a portion of their work elsewhere than at the Harvard Medical School, provided the application be approved by the Dean in consultation with the Administrative Board and the head of the department concerned, and provided the student passes an examination on this work after its completion, conducted by a member of the Faculty of the Harvard Medical School.

#### EXAMINATIONS AND PROMOTION

Students are divided into four classes and promotion from one class to another is dependent upon the satisfactory completion of the work of each year. The Faculty reserves the right to require the withdrawal of any student at any time when, in the opinion of his instructors, it is manifest that he is incompetent, or for any reason is unfit to continue his course.

Each student will receive a rating in each course based upon examinations or other tests as determined by each department. These marks shall be on the scale of A, B, C, D, and E (E denoting failure).

No student is allowed to anticipate the examinations in the regular course of studies of his year except by special permission of the Administrative Board.

A Promotion Board for each of the first three years, consisting of members of each department giving the principal courses during that year, will meet in February (if occasion arises), to act upon cases presented as a result of the work of the first half-year and will meet in June for the work of the entire year. The Boards will determine and send to the Dean's Office, before the final Faculty meeting in June, a mark for each student for the corresponding school year.

It is the duty of a Promotion Board, after receiving marks from the departments concerned, to promote those qualified, to warn or condition any student as occasion demands, to interview and examine any student as to whom it is in doubt, and to recommend to the Faculty that unpromising students be requested to withdraw.

The actions of the Promotion Boards are final, subject only to the standing rules of the Faculty and to confirmation by that body. Students shall not ask for reconsideration from any member of the Promotion Boards. Such requests may be made only in case there is a change in the information upon which the action was taken, and must be made in writing to the Assistant Dean before July 15.

*Faculty Rules:*

1. A student who fails two major subjects in one year shall withdraw from the School.

2. Passing in the majority of subjects with a D grade is not sufficient grounds for promotion. Any student who has failed to be promoted under this rule, and who wishes to repeat the previous year, must apply to the Committee on Admission for permission to do so.

3. The Promotion Boards at their discretion may promote a student who has failed in one major subject in a year, but such a student shall not be promoted a second time nor be allowed to take the General Examination until that failure is removed.

4. A student failing any course shall have an opportunity for reëxamination only in September or with a succeeding class or section. This rule shall not prevent a special examination, after a lapse of two months, for students who have been required to withdraw by the Promotion Boards.

5. No course marks may be given out except by the Dean or Assistant Dean

6. The Committee on Examinations shall not admit a student to the General Examination unless he has passed at least seven-eighths of his fourth year courses, including medicine and surgery, and fulfilled all of the other requirements of the Faculty.

7. A student who has failed three times in a General Examination shall be debarred from further attempts.

*General Examinations:*

The Committee on Examinations will give a General Examination to each candidate for the degree of M.D., will give him a final mark, and will recommend to the Faculty those properly qualified for the degree and for honors. The Examination will include written, oral or practical tests, at the discretion of the Committee. It will be held in June and, provided there are qualified applicants, in February and may be held at other times if the Committee so decides.

The conditions under which a student may be allowed to take his General Examination, and the character and conduct of the Examination, will be determined by the Committee, subject only to rules 6 and 7 of the Faculty

**WITHDRAWAL FROM THE SCHOOL**

A student may withdraw from the School, upon application to the Assistant Dean. *Application for reinstatement must be made at least four months prior to the date of readmission.* If reinstatement is delayed more than a year, application must be made in competition with other candidates for admission. The return of fees and bond cancels registration.

## DEGREES

## DEGREE OF DOCTOR OF MEDICINE

Every candidate for the *degree of Doctor of Medicine* at this University must be at least twenty-one years of age, and of good moral character. He must have fulfilled all the requirements for admission to this Medical School; give evidence of having studied in a recognized medical school at least four full years, of which one year must be spent in the regular fourth year course of this School; have passed all the required examinations; have dissected the three parts of the body to the satisfaction of the demonstrator; have taken charge of and reported on twelve cases in Obstetrics under supervision and instruction; and furnish evidence of having engaged in the practical exercises in Medicine and Surgery.

The degree of Doctor of Medicine *cum laude* or *magna cum laude* may be given to students of highest rating in the class, on recommendation of the Committee on Examinations.

Every candidate for the degree of M.D. must make application for it in writing on blanks furnished at the Dean's office, on or before *May 1* of the year in which he proposes to graduate.

## HIGHER DEGREES IN THE MEDICAL SCIENCES

The degrees Master of Arts, Doctor of Philosophy, and Doctor of Medical Sciences have been established for advanced work in some special field in the Medical Sciences. The first two degrees are voted by the Faculty of Arts and Sciences upon the recommendation of a Committee consisting of members of the Faculties of Medicine and of Arts and Sciences. The degree of Doctor of Medical Sciences is administered by the above Committee, excepting the members from Harvard College, and the degree is voted by the Medical Faculty. All candidates for these degrees must hold a degree in Arts or in Sciences from an approved college. These degrees are not awarded for mere reason of faithful study for a prescribed time, but primarily for high attainment in a selected science.

## DOCTOR OF MEDICAL SCIENCES

Candidates for this degree must matriculate as medical students and complete with an honor grade the regular elementary courses offered by this School in Anatomy, Histology and Embryology, Physiology, Biological Chemistry, Bacteriology, Pathology, Pharmacology and Clinical Pathology, together with such other subjects as may be recommended by the Committee. In addition all candidates are required to have a reading knowledge of French and German. Ordinarily this preparatory training will be equivalent to the first two years of the course of study leading to



the degree of M.D. Students who have completed all or a portion of this work in other approved medical schools may be admitted to candidacy upon presenting evidence that they have passed the above subjects or their equivalents with an honor grade, and upon passing the general examination described below.

Following the completion of this preliminary training the student shall devote himself for not less than two years to the intensive study of one of the fundamental medical sciences and to the preparation of a thesis. The thesis must show an original treatment of a fitting subject and give evidence of independent research.

There shall be two examinations for every candidate for this degree: a general examination, before entering upon the work of the last two years, covering the elementary medical sciences listed above; and a final examination, upon acceptance of the thesis, covering the particular medical science chosen as a special field.

The fees for the first two years are the same as for medical students.

#### MASTER OF ARTS AND DOCTOR OF PHILOSOPHY

Candidates for the *degree of Master of Arts* must register in the Graduate School of Arts and Sciences, and pursue an approved course of study in medical science for at least one year.

Candidates for the *degree of Doctor of Philosophy* must fulfil certain preliminary requirements described in the general University Catalogue, must devote to approved advanced studies not less than two years — at least one of which must be spent in residence at this University — and must pass general examinations and present an account of original work in an accepted thesis, before being granted the degree.

The fees are \$400 for each year.

Further information concerning the higher degrees may be secured from Dr. HALLOWELL DAVIS, Secretary of the Division of Medical Sciences, Harvard Medical School.

### FEES AND EXPENSES

#### DEGREE OF DOCTOR OF MEDICINE

It is recommended, unless a student sees reasonably clearly how he will meet the expenses of at least the first year in the School, that he postpone his entrance until he can save money enough to get started without having ahead of him oppressive financial worry. Only a limited amount of outside work can be done without being a tax on the student's health and scholarship.

An estimate of total yearly expenses shows that the average cost of the school year is \$1,275 for the last three years, and \$1,400 for the first year



when, in addition to other expenses, a microscope must be bought. This estimate includes tuition, board and room, books, laboratory fee, laundry and incidentals.

Matriculants are required to own their microscopes and hemocytometers. These must be of a type acceptable to the Medical School. Their cost will be about \$130. In exceptional cases, upon application to the Dean's Office before September 1, a matriculant may be permitted to rent a microscope.

The fees are :—For matriculation, \$5; for instruction (including laboratory charges except breakage, damage and loss of apparatus), \$400 for each year.

Tuition will be charged on the term-bills in four instalments, as follows :—

One-fourth on a term-bill issued and payable September 26.

One-fourth on a term-bill issued November 12 and payable November 30.

One-fourth on a term-bill issued January 12 and payable January 30.

One-fourth on a term-bill issued April 12 and payable April 29.

(Miscellaneous charges such as breakage, etc., on a term-bill issued June 13 and payable July 11.)

The matriculation fee will be charged on the term-bill of September 26. Rental for dormitory rooms is payable on the second and fourth term-bills. Bills for miscellaneous charges will be rendered at the time the indebtedness is incurred. A deposit of \$50 is required of every new student who accepts a place in the Medical School; this sum to be applied on his first term-bill or to be forfeited if the student does not register.

A deposit of \$1 with the Superintendent of Buildings will entitle the student to the use of a locker in the School buildings.

Any student whose indebtedness to the University remains unpaid on the date fixed for payment is deprived of the privileges of the University until he is reinstated. Reinstatement is obtained only by consent of the Dean of the Department in which the student is enrolled, after payment of all indebtedness and a reinstatement fee of \$10. *Students will be held responsible for the payment of fees until they have notified the Dean, in writing, of their intention to withdraw from the School, and have subsequently received their bond from the Bursar.*

#### DORMITORY

Vanderbilt Hall, the Medical School dormitory, has accommodations for 335 students. The price of rooms ranges from \$125 to \$370 for the academic year of thirty-nine weeks. Applications for rooms in the dormitory should be sent to the Dean of the Medical School before May 1. Students permitted to reëngage their rooms must file at the Bursar's Office

new room agreements on or before March 10, 1933. The dormitory has squash courts and a gymnasium, which are open to members of the teaching staff and students of the Medical School. In addition the School owns four tennis courts.

The dormitory contains a large dining hall which is available for all members of the Medical School. Meals are served at reasonable prices.

#### BOND REQUIRED OF STUDENTS

On his entrance to the School every student is required to file with the Bursar a bond in the sum of \$500 signed by two bondsmen, one of whom must be a citizen of the United States, or by a surety company duly qualified to do business in Massachusetts, as security for the payment of his bills to the University; or he may deposit with the Bursar \$500 in United States bonds for the same purpose.

No officer or student of the University is accepted as a bondsman.

#### MEDICAL ATTENDANCE

The Medical School provides a physician to students, who will give medical advice without charge during the school year. His office hours are from 1 to 2 o'clock daily, except Saturdays, Room 103, Building A, Harvard Medical School, and at other times by appointment.

Any illness necessitating absence from work must be reported to the Dean's Office either by the attending doctor or by the student if he has not been to a doctor.

Under the auspices of the Department of Medicine a physical examination will be given each student during the academic year 1932-33.

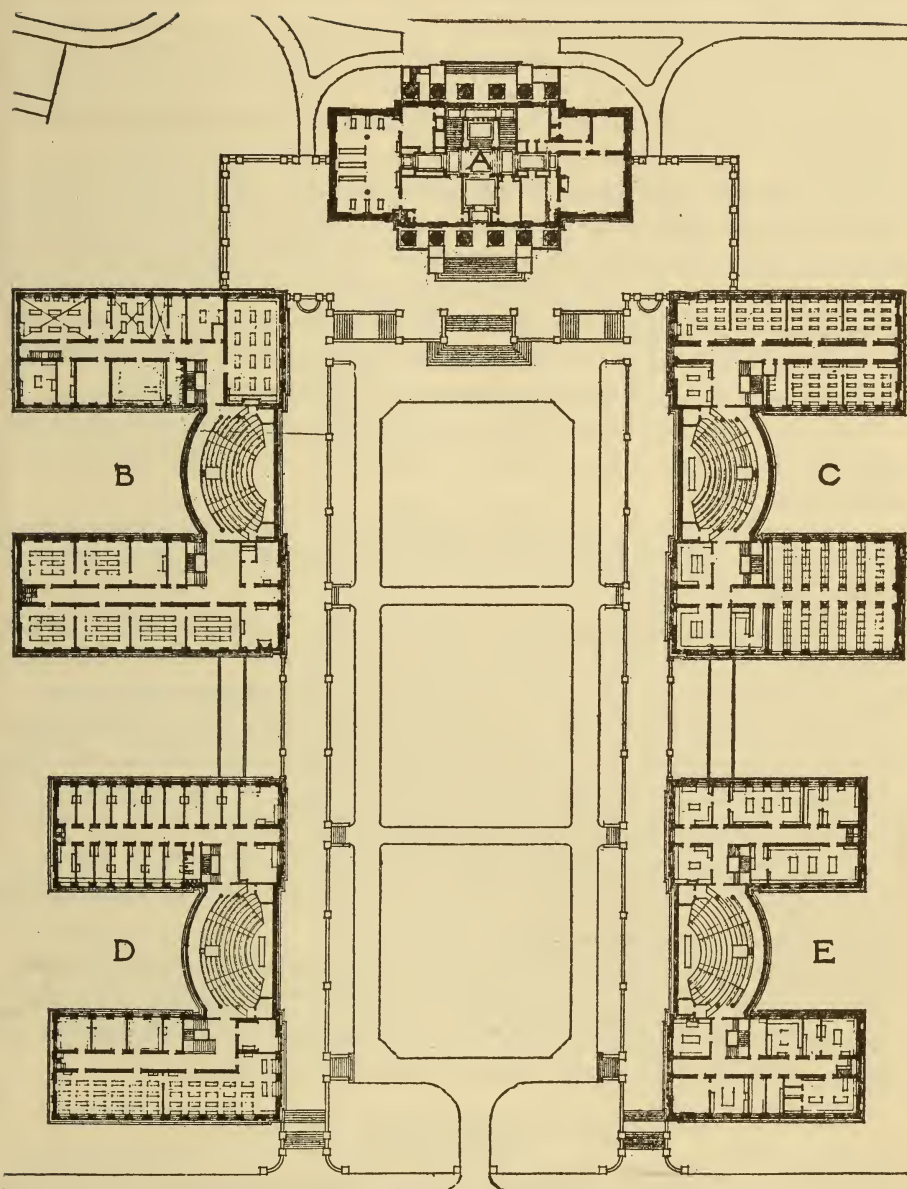
Evidence of having been satisfactorily vaccinated is required for entrance to Harvard University.

For information regarding the Stillman Infirmary see the *University Catalogue*.

#### BUILDINGS

The course in Medicine, established by Harvard University in 1782, was given in buildings of the College, University Hall and Holden Chapel, from its establishment until 1810, when the classes were transferred to Boston. In 1816 the first Medical School building was erected. From 1882 until 1906 the School occupied the building at the corner of Boylston and Exeter Streets, now used by Boston University.

In 1906 the University completed a notable group of white marble buildings on Longwood Avenue for the Medical School. These buildings are five in number and with their surrounding grounds occupy eleven acres



OUTLINE PLAN OF THE HARVARD MEDICAL SCHOOL



of land in the outskirts of Boston. One of these is designed for administration and four for housing the laboratory departments, and for laboratory and clinical instruction.

The Administration Building, with over 40,000 square feet of floor space, contains the Faculty Room, the Dean's offices, the joint library of the Medical School and the School of Public Health, and the Warren Museum.

The laboratory buildings, designated by the letters B, C, D, and E, are all constructed on the same general plan. Each consists of two parallel wings united at the front by an amphitheatre with a seating capacity of two hundred and fifty. Both the smaller rooms and the laboratories are designed on a unit system which greatly simplifies the changes required in making these suited to the needs of departments whose methods of teaching have changed since the rooms were originally designed.

The amount of floor space varies considerably in each of the four buildings, but the design is such that this variation is not apparent from the main quadrangle.

Building B accommodates the department of Anatomy, Histology, and Embryology. The wings each have three floors and a total floor space of over 52,000 square feet.

Building C provides space for the departments of Physiology, Physical Chemistry, Biochemistry, and Experimental Surgery. In this building each wing has four floors and a total floor space of 62,000 square feet.

Building D is occupied by the departments of Bacteriology, Pathology, and Tropical Medicine. In this building there are five floors in one wing and three floors in the other, with a total floor space of over 48,000 square feet. The Animal House is between buildings B and D.

Building E houses Pharmacology, Preventive Medicine, and Comparative Pathology. There are three floors in one wing and four floors in the other, with a floor space of 35,000 square feet.

The outline plan of the buildings and their position is shown on p. 21.

The clinical departments are housed in the various hospitals associated with the School. Vanderbilt Hall, the dormitory for medical students, is immediately adjacent to the Medical School buildings.

## LIBRARIES

The joint library of the Medical School and the School of Public Health is on the second floor of the Administration Building, and in the other buildings are branch libraries. By an arrangement with the Peter Bent Brigham Hospital, library facilities for the hospital are available. This library is open from 9 A.M. until 10 P.M., on Saturdays from 9 A.M. until 5 P.M. and on Sundays from 1 P.M. to 5 P.M. During the summer

vacation, the Library is open on week-days from 9 A.M. until 10 P.M., on Saturdays from 9 A.M. until 12 M., and on Sundays is closed throughout the day. The present number of volumes in the library is 58,375, and in addition there are 155,000 pamphlets and 634 current periodicals kept on file.

The College Library at Cambridge is open to the students of this School.

The Boston Public Library is open to students who are residents of Boston. Students, not residents of Boston, who have filed a bond at the Bursar's office, may also use this library. The Bursar will furnish on application the necessary certificate of bond.

The Boston Medical Library, No. 8 The Fenway, contains about 160,000 bound volumes and 106,000 pamphlets, and approximately 870 current periodicals are on file. This very valuable library is open to those who desire to consult medical literature, on week days from 9.30 A.M. to 6 P.M., and on Monday, Wednesday, and Friday to 10 P.M.

#### LECTURESHIPS

The Cutter Lectures on Preventive Medicine were established in 1912 under the deed of gift contained in the will of Dr. John Clarence Cutter. These lectures are given annually and are open to the medical profession.

The Edward K. Dunham Lectures for the promotion of the medical sciences have been given annually since 1923 by eminent investigators and teachers in one of the branches of the medical sciences or of the basic sciences which contribute toward the advance of medical science in the broadest sense. The lectures are open to the Faculty and students of the Harvard Medical School and College and all other interested professional persons. The lectures are given under the fund established for that purpose by Mary Dows Dunham in memory of her husband, Dr. Edward K. Dunham.

The George W. Gay Lectures upon Medical Ethics are given annually at the Harvard Medical School. The fund for the establishment of these lectures was given in 1917 by Dr. George W. Gay.

#### WARREN ANATOMICAL MUSEUM

The Warren Anatomical Museum was founded in 1847 by JOHN COLLINS WARREN, of the College Class of 1797, Adjunct Professor of Anatomy and Surgery from 1809 to 1815, Hersey Professor of Anatomy and Surgery from 1815 to 1847, Professor *Emeritus* from 1847 to his death in 1856, son of JOHN WARREN, the first Hersey Professor of Anatomy and Surgery. This important Museum is open to students in the School, and its collections are used in demonstration of the lectures. It occupies the

upper three floors of the Administration Building. Myrtelle M. Canavan, M.D., is Curator.

The collection has over twenty thousand specimens, illustrating both normal and pathological anatomy. Students and graduates may have access to these specimens at any time upon application to the Curator.

Besides dissections and serial sections of bones, the anatomical collection includes many injections, corrosion preparations, models and groups of bones, notably the Dwight collection of spines, hands and feet, Tello collection of skulls, etc.

The pathological collection of "hand" specimens, conveniently housed in 40-gallon tanks, is for the use of students, and mounted specimens illustrate the major diseases.

There is a collection of medico-legal material which has a section to itself and forms a basis for teaching.

The American Ambulance of Paris has contributed a number of specimens from the European War, especially interesting for a student of military surgery.

## HOSPITAL FACILITIES

The transfer in 1810 of the Medical School of Harvard University from Cambridge to Boston was made in order to secure the advantages of the larger clinical facilities which are to be found in large cities. Clinical advantages from the students' viewpoint are not a matter of large hospitals only, but rather are related to the number of patients in these hospitals who are under the care of instructors on the staff of the Medical School and available for teaching purposes. This School is closely affiliated on the above basis with the hospitals described in the following list, thus offering Harvard Medical School students an unrivaled opportunity to secure a well-organized clinical experience and knowledge of disease. Each student comes into intimate contact, under supervision, with patients in these hospitals, beginning in the second half of the second year and increasing until the fourth year, when the students serve as clinical clerks and give their whole time to the study of patients.

*The Massachusetts General Hospital.* — This is a general hospital associated with the Medical School since its foundation in 1821. There are services in Medicine, Surgery, Pediatrics, Dermatology, Genito-Urinary diseases, Orthopaedics, Neurology, and Syphilis, all of which are used in giving instruction in these special departments of medicine. The hospital has 714 beds, 413 of them being available for teaching purposes. In the General Hospital 7,436 patients were admitted last year and there were 138,743 patients' days treatment. Large out-patient departments are also used for instruction in the above clinical subjects. 43,259 new patients were admitted to the out-patient department last year



for a total of 285,176 visits. 13,429 patients were treated in the Emergency Ward. Laboratories in Pathology, Chemistry, Metabolism, Medical and Surgical Research, and X-ray are maintained, and there is an excellent medical library, all of which are open to students in the Medical School.

*The Massachusetts Eye and Ear Infirmary.* — There are 231 beds in this hospital, 189 of which are used for instruction in diseases of the eye, ear, nose and throat. Over 6,000 patients are treated in the wards, and there were 42,244 patients' days treatment. Last year there were 91,566 out-patient visits. Pathological and X-ray laboratories are maintained.

*The Boston City Hospital.* — This hospital which, in all its divisions, contains 2,283 beds (including 354 bassinets and cribs) 1,321 of which are in the main hospital and all of which are available for teaching purposes, serves as one of the teaching units for the Medical School. The 2d and 4th Medical services, the 5th Surgical, the Neurological and Pathological services are under the direction of Professors at the Harvard Medical School. In addition there are divisions of Gynaecology, etc., open to medical students. In the out-patient department (main hospital and two Relief Stations), 161,360 new patients applied for diagnosis and treatment during the year 1931. They furnish additional teaching material. Clinical laboratories are maintained for research in pathology, nephritis, diabetes, basal metabolism, blood, immunology and neurology. The Thorndike Laboratory is the medical research department. A department for surgical research was opened in 1930. There is a neurosurgical service. The X-ray service is very large and important. Instruction to medical students is given here daily. There is an excellent library, including 76 current medical journals.

*Hospital Department — Sanatorium Division.* — The Boston Sanatorium for tuberculous patients at Mattapan is a department of the Boston City Hospital. It has a capacity of 587 beds and a daily average of 556 patients. New buildings, affording increased bed capacity, have been erected. During eight months of the year two to six fourth year students of Harvard Medical School spend eight hours daily for one week in this hospital under the supervision of the Resident Physician.

*The Peter Bent Brigham Hospital.* — This hospital has been closely associated with the Medical School since its dedication in 1913. It is for general medical and surgical cases, and is situated on grounds adjacent to the Medical School buildings. There are 246 beds, all of which are used for teaching purposes. There is also maintained an out-patient service for ambulatory medical and surgical patients to which 7,595 new patients applied during the past year. The total number of visits was 72,256. There are well-equipped medical, surgical, and pathological laboratories. The hospital, by special arrangement, makes use of the library of the Medical School.

*The Beth Israel Hospital.*—This is a general hospital with a capacity of 200 beds (including 21 pediatric beds), 120 of which are available for teaching. The institution is located on Brookline Avenue around the corner from the Harvard Medical School. The Hospital is equipped for teaching and research, having a medical research and pathological laboratory, each under the direction of a full-time physician who is associated with the Faculty of the Harvard Medical School. There are also electrocardiograph and basal-metabolism laboratories, animal research equipment, and an extensive X-ray department. 4,504 patients were admitted to the hospital last year and spent 49,769 patients' days in the institution. There were 5,977 new patients admitted to the out-patient department during the year and a total of 58,688 visits made.

*The Children's Hospital.*—The buildings of this hospital are on Longwood Avenue, adjacent to the Medical School. This hospital maintains a medical clinic, with its associated neurological, contagious, and child welfare divisions, a surgical, an orthopaedic, and a nose and throat clinic. There are 265 beds, of which 212 are available for teaching purposes. During the year there were 4,688 cases treated in the wards, and 64,740 visits were made to the out-patient department. Well-equipped laboratories are provided for the study of material from the wards and out-patient service.

*The Infants' Hospital (Thomas Morgan Rotch Jr. Memorial Hospital for Infants).*—This hospital is adjacent to and under the management of the Children's Hospital. There are 50 beds, all of which are devoted to the care of infants. 876 were treated during the year. All of the cases in this hospital are available for teaching.

*The Boston Lying-in Hospital.*—This hospital occupies a building completed in 1923 at 221 Longwood Avenue. Of the 136 beds, 114 are used for teaching. During the past year 2,462 patients received treatment in the hospital, of whom 1,956 were delivered. In addition, in the out-patient department, 1,098 cases were attended under supervision by third and fourth year students. Chemical, pathological, and bacteriological laboratories and a well-equipped X-ray department are available for research.

*The Free Hospital for Women.*—This hospital is devoted exclusively to the surgical treatment of diseases peculiar to women. The hospital has a capacity of 97 beds, of which 65 are available for teaching. In the out-patient department there are about 12,000 consultations yearly. Library and laboratory facilities are available.

*Boston Psychopathic Hospital.*—This is a state institution for acute, curable, incipient, and doubtful cases of mental disease. The hospital was opened to patients in June, 1912. It has 110 beds, all of which are avail-



able for teaching, and receives patients at the rate of about 1,800 a year. The hospital is equipped with psychological, neuropathological and biochemical laboratories. The out-patient department receives patients at the rate of over 1,000 a year. In addition to the psychoses and neuroses, the clinical material includes cases of mental defect and disorder in childhood, cases of mental instability, and of delinquency.

*The Collis P. Huntington Memorial Hospital and the J. Collins Warren Laboratory of Bio-Physics.* — This hospital and laboratory of the Cancer Commission of Harvard University afford opportunity for the study of human tumor cases. The aim of the hospital is to study special problems concerning the natural history and the treatment of tumors. It affords a means for early diagnosis, treatment, or advice regarding therapeutic measures. There are 22 beds, all of which are available for teaching purposes; out-patients are received at stated hours. During the past year, 1,575 new patients were treated in the house and out-patient department.

*The Boston Dispensary.* — 167,523 visits were made by approximately 25,000 different patients to the daily morning clinics and evening pay clinics of this institution during the past year. Students have opportunity for seeing practical work in the diagnosis and treatment of cases in all branches of medicine and surgery. Undergraduates are taught in the Surgical Clinic twice a week during the School year. Otherwise, the use of the Dispensary by the Harvard Medical School is mainly for graduate instruction.

*House of the Good Samaritan.* — This hospital is situated at 25 Binney Street, Boston, adjacent to the Medical School. There are 75 beds devoted to the care and study of rheumatic heart disease. 181 patients were admitted in 1931. The hospital has a research building connected with it containing finely equipped laboratories. All beds are available for teaching.

*The New England Deaconess Hospital.* — This hospital has 260 beds. In addition to general cases, there are large numbers of cases of diabetes, thyroid disorders, and gastro-intestinal disorders. Eighty-five beds are in the Palmer Memorial unit, chiefly for malignant disease.

## HOSPITAL APPOINTMENTS

About eighty appointments as internes and assistants are made annually to hospitals in and about Boston for terms of service varying from six months to two years. These appointments are made after a competitive examination.

## THE CANCER COMMISSION OF HARVARD UNIVERSITY

The Cancer Commission of Harvard University was founded in 1899, by the late Mrs. Caroline Brewer Croft, who left in her will a sum of money for the investigation of the cause and treatment of cancer. Since that time other sums have been contributed for cancer research, and the Cancer Commission of Harvard University was organized in 1909. Its work is carried on chiefly at the Huntington Hospital and its laboratories. President Lowell is Chairman of the Commission.

## HARVARD INFANTILE PARALYSIS COMMISSION

A Commission for the purpose of assisting in the early recognition, treatment, and study of infantile paralysis was appointed by the Corporation September 25, 1916.

This Commission shortly after it was established was appointed agent of the State Department of Health, thereby assuring coöperation with the Commonwealth. The Commission also coöperates with the Vermont Board of Health. Roger Pierce, *Chairman*, Richard C. Curtis, *Treasurer*, W. Lloyd Aycock, M.D., Frederick Ayer, George H. Bigelow, M.D., Hermann F. Clarke, Homer Gage, M.D., Arthur T. Legg, M.D., James J. Minot, Jr., Robert B. Osgood, M.D., W. Rodman Peabody, Redfield Proctor, Milton J. Rosenau, M.D., Richard M. Smith, M.D., Charles H. Taylor, Hans Zinsser, M.D.

## HARVARD EPILEPSY COMMISSION

A Commission for the study of epilepsy was appointed by the Corporation in June 1928.

The Commission plans to conduct research into the various convulsive conditions in coöperation with various hospitals and the Department of Neuropathology of the School. At present, particular attention is being devoted to the biochemical aspects of the disease and to the study of cerebral circulation in relation to convulsions, but the Committee stands ready to investigate any promising suggestions. Fritz B. Talbot, M.D., *Chairman*, Robert Amory, Walter B. Cannon, M.D., Stanley Cobb, M.D., Bronson Crothers, M.D., Christian A. Herter, Halfdan Lee, *Treasurer*, Ralph Lowell.

## PROCTOR FUND

A bequest of fifty thousand dollars by Ellen Osborne Proctor, for the purpose of promoting the study of chronic diseases, subsequently has been increased by an additional fifty thousand dollars from another member of the Proctor family. The income of this fund is to be devoted to investi-

gations into the nature and treatment of chronic diseases and the care of persons afflicted with these diseases while in hospitals for such investigations. The special disposition of the income of this fund is under the control of a committee composed of the professors of Theory and Practice of Physic, Clinical Medicine, and Pathology. Henry A. Christian, M.D., is Chairman of the Proctor Fund Committee.

### WILLIAM W. WELLINGTON FUND

In 1925 a bequest was received from William H. Wellington to establish the "William W. Wellington Memorial Research Fund." The income of this fund is to be applied for research concerning the etiology and therapeutics of the diseases of man, and is to be administered by a Committee composed of the heads of the departments of Pathology, Medicine, and Pharmacology. S. Burt Wolbach, M.D., is the Chairman.

### COURSES FOR GRADUATES

The object of this division of the Medical School is to offer to graduates in Medicine opportunities to continue their studies in a thorough and scientific manner.

While all courses are intended primarily for those who hold degrees from recognized medical schools, certain courses in the scientific subjects are adapted to the needs of advanced students and teachers of science. Such persons may be admitted to courses on the approval of the Administrative Board.

Undergraduate students of medicine may be admitted to such courses as they are qualified to take. Special consideration for the needs of such students will be given in the plans for summer courses.

Laboratory facilities at the Harvard Medical School and the abundant clinical opportunities in the various hospitals are available for graduate instruction. Frank R. Ober, M.D., Assistant Dean, is in charge.

### SCHOOL OF PUBLIC HEALTH

This School was opened in 1922 to organize, under one Faculty, courses in Public Health, some of which were previously offered by other departments of the University and of the Massachusetts Institute of Technology. Its object is to provide the scientific groundwork which underlies efficient health administration.

Courses in Bacteriology, Parasitology, Epidemiology, Communicable Diseases, Tropical Medicine, Public Health Administration, Physiology, Nutrition, Ventilation and Illumination, Vital Statistics, Sanitary Engineering, Child Hygiene, Mental Hygiene, Industrial Hygiene, are offered,



which aim to train the student to become an intelligent Public Health official. Opportunity is also given to students wishing to pursue research in Public Health. Any course may be taken singly, or a student may devote a considerable period of time to one subject. For further information, apply to the Secretary.

## FELLOWSHIPS AND SCHOLARSHIPS

### FELLOWSHIPS

*Applications for fellowships should be in the hands of the Dean on or before March 1.*

The amount of the stipend of the Fellowships and Scholarships is approximate only and contingent upon the income of the University.

Students who marry while on a fellowship will forfeit the fellowship unless at the time of their application they have notified the Committee of their intention to marry.

**AUSTIN FELLOWSHIPS.** A certain number of teaching fellowships have been established from the income of the Austin Fund and assigned to the Medical School. *Each, \$900*

**EDWARD HICKLING BRADFORD FELLOWSHIP.** Established in 1918 by an anonymous gift. The Fellowship may be used for research or instruction separately or in connection with any other foundation in such manner as the Corporation may from time to time prescribe. **\$1,450**

**THE JOHN WHITE BROWNE SCHOLARSHIP.** Established under the will of Mrs. Francis B. Greene in 1918. This scholarship is to be awarded by the Dean of the Medical School to a young man (graduate or matriculated student) of unusual promise, to enable him to pursue research investigations for a year at the Harvard Medical School or elsewhere. **\$1,200**

**BULLARD FELLOWSHIPS.** Established in 1891 by a gift from WILLIAM STORY BULLARD of Boston, "in memory of three physicians who were distinguished for their honorable personal character and for their professional services in this community." The three following fellowships were established:—

THE GEORGE CHEYNE SHATTUCK MEMORIAL FELLOWSHIP . .	\$400
THE JOHN WARE MEMORIAL FELLOWSHIP . . . . .	380
THE CHARLES ELIOT WARE MEMORIAL FELLOWSHIP . . . . .	400

The income from any one or all of these fellowships may be paid to any student or member of the medical profession who shall be selected by the Administrative Board of the Medical School to make such original investigations in Medical Science as in their opinion will be most useful to the profession and to the community. The results of such investiga-

tions shall not, however, be published as a research performed under the grant of a Bullard Fellowship, unless the work shall have received the approval of the Committee. If published with the approval of the Committee, mention shall be made of the fact that the work was done under a Bullard Fellowship.

Holders of Bullard Fellowships are required to do an amount of work equivalent to not less than ten hours a week throughout the academic year and to present to the Committee at the end of the academic year a report on the amount and result of the work performed. There are offered also from School research funds other students' research fellowships of \$300 each under similar conditions.

**ARTHUR TRACY CABOT FELLOWSHIP.** Established in 1913 by a gift from Dr. and Mrs. Frederick Cheever Shattuck, in memory of Arthur Tracy Cabot, M.D., of the Class of 1872. The holder of the Fellowship is not ordinarily to engage in active private practice while holding it but is to devote himself to the advancement of Surgery whether in the United States or elsewhere. The nomination to this Fellowship is, by preference, to be in the hands of the Moseley Professor of Surgery. \$1,500

**THE JAMES JACKSON CABOT FELLOWSHIP.** Established in 1906 by a gift from Arthur T. Cabot, Samuel Cabot, and Guy C. Cabot. In 1912 Guy C. Cabot added to this fund. The income remaining after adding a certain percentage to the principal each year is preferably, but not necessarily, to be used for a fellowship "to aid and encourage practical work in scientific medicine." \$800

**CHARLES FOLLEN FOLSOM TEACHING FELLOWSHIP.** Established in 1908 by gifts from more than sixty persons in memory of Charles Follen Folsom, A.B. 1862, M.D. 1870, Lecturer on Hygiene, 1877-79, on Hygiene and Mental Diseases, 1879-80, on Mental Diseases, 1880-82; Assistant Professor of Mental Diseases, 1882-85, and Overseer, 1891-1903. It was the desire of the givers that there be established in the Medical School a Charles Follen Folsom Teaching Fellowship in Hygiene or in Mental and Nervous Diseases, and that the incumbent receive the annual income of the fund, or such part of it as may be consistent with the standing rules of the Corporation in such cases. This fellowship has been assigned to the Department of Hygiene until the further order of the President and Fellows. \$800

**THE CHARLES SEDGWICK MINOT FELLOWSHIP.** Given by Mrs. Charles S. Minot in memory of Dr. Charles Sedgwick Minot, to be awarded to an undergraduate in the Medical School to help him in conducting investigative studies. \$200

**WILLIAM O. MOSELEY, JR., TRAVELLING FELLOWSHIPS.** Established in 1912 by a bequest of Mrs. William O. Moseley for men who have



attended the School for three or four years, for further study in Europe. Either two or three Fellowships will be awarded from the income, which is approximately \$5,500.

**HENRY P. WALCOTT FELLOWSHIP IN CLINICAL MEDICINE.** Founded in 1910 by Frederick Cheever Shattuck, A.M., M.D., LL.D. "The income to provide for the support of a Fellow in Clinical Medicine, who shall receive his appointment from the Corporation on nomination by the Jackson Professor of Clinical Medicine, who, while the holder of the Fellowship, shall not engage in private practice but devote his time to teaching and clinical research work." \$1,800

**DR. WILLIAM HUNTER WORKMAN SCHOLARSHIP.** Established in 1925 by a gift from William Hunter Workman, M.D. 1873, to enable one or more graduates of the Harvard Medical School to pursue post-graduate studies in medicine in this country or abroad. In exceptional cases, fourth year students will be eligible. \$1,250

### SCHOLARSHIPS

Scholarships are open only to students who are members of the School at the time of application.

The Cheever, Greene, Haven, and Mears Scholarships are awarded to students of the first year class. The Hayden and Webster Scholarships may be so awarded. All the other scholarships are awarded to members of the three upper classes.

Scholarships and gratuities are awarded to such men among those applying for and needing assistance as give evidence of having done the best work in this School.

Information with regard to all forms of pecuniary aid may be obtained from the Dean's Office. Students requiring aid should visit the Dean's Office as soon as possible after matriculation to discuss their financial needs.

Applications from second, third, and fourth year students must be made on or before May 1, 1933.

Applications for the Cheever, Greene, and Haven Scholarships must be handed in to the Dean's Office on or before *December 1*.

EDWARD M. BARRINGER SCHOLARSHIP No. 1 . . . . .	\$300
EDWARD M. BARRINGER SCHOLARSHIP No. 2 . . . . .	200

From the estate of Edward M. Barringer for the maintenance of two scholarships for students in the Harvard Medical School, these scholarships are awarded to deserving students, preference being given to those of the fourth year class.

**THE GORDON BARTLETT SCHOLARSHIP.** Established in 1919 by Mr. and Mrs. Donald Gordon in memory of their nephew, Gordon Bartlett, a student at Dartmouth College who died of wounds at St. Mihiel while serving in the Seventeenth Field Artillery. Preference is given to graduates of Dartmouth College. This scholarship will ordinarily be divided between two men. \$450

**THE MATTHEW AND MARY E. BARTLETT SCHOLARSHIP.** Founded by Miss Fannie Bartlett of Boston, in memory of Matthew and Mary E. Bartlett, for the benefit of a worthy and meritorious student who is in need of financial assistance. \$550

**LUCIUS F. BILLINGS SCHOLARSHIP.** Founded in 1900 from a bequest under the will of Lucius F. Billings. The income may be divided between two or more students. \$275

**DAVID WILLIAMS CHEEVER SCHOLARSHIP.** Founded in 1889 by David Williams Cheever, M.D., LL.D., of Boston, of the Class of 1852. It is to be awarded to a poor and meritorious student of the first year, after three months' probation in the Medical School. \$375

**COTTING GIFT.** Received from the late Dr. Benjamin E. Cotting to be given to such medical student or students as the Administrative Board may select, having regard to the pecuniary needs, intellectual capacity, faithfulness and earnest endeavor, rather than to highest scholarship merely. \$175

**ORLANDO W. DOE SCHOLARSHIP.** Established as a part of the bequest of Orlando Witherspoon Doe (A.B. 1865, M.D. 1869). "To be given annually as a scholarship to a deserving student in the Medical department." \$150

JOSEPH EVELETH SCHOLARSHIP No. 1 . . . . . \$225

JOSEPH EVELETH SCHOLARSHIP No. 2 . . . . . 225

JOSEPH EVELETH SCHOLARSHIP No. 3 . . . . . 225

Founded from the residuary bequest made by Joseph Eveleth, of Boston, "for aiding deserving and indigent young men in obtaining an education in said College or any of the schools connected therewith."

HORACE PUTNAM FARNHAM SCHOLARSHIP No. 1 . . . . . \$300

HORACE PUTNAM FARNHAM SCHOLARSHIP No. 2 . . . . . 300

Founded in 1918 from a bequest under the will of Mrs. Horace Putnam Farnham as a memorial to her husband, for the benefit of meritorious students of limited pecuniary resources in the Harvard Medical School.

**CHARLOTTE GREENE SCHOLARSHIP.** Founded in 1925 by Edwin Farnham Greene, for the benefit of a first year student whose previous record indicates special promise. \$225

**GEORGE HAVEN SCHOLARSHIPS.** Founded in 1913 from a bequest under the will of George Haven, the income to be used annually for scholarships for deserving students of the first year in the Medical School, the amount of such scholarships to be at the discretion of the Scholarship Committee. \$1,100

**The LEWIS AND HARRIET HAYDEN SCHOLARSHIP** for colored students. Founded in 1894 from a bequest of Mrs. Harriet Hayden. The income may be divided between two or more students. If not awarded in the Medical School or in the School of Public Health, it is open to colored students in any other department of the University. \$300

**HILTON SCHOLARSHIP No. 1** . . . . . \$350

**HILTON SCHOLARSHIP No. 2** . . . . . 350

Founded in 1897 from a bequest of William Hilton.

**WILLIAM OTIS JOHNSON SCHOLARSHIP.** Founded in 1912 from a bequest under the will of Mrs. William O. Johnson, in memory of her husband, William Otis Johnson, M.D., of the Class of 1845. \$225

**CLAUDIUS M. JONES SCHOLARSHIP.** From a bequest of six thousand dollars by Claudius Marcellus Jones, of the Class of 1866, M.D. 1875. \$350

**ALFRED HOSMER LINDER SCHOLARSHIP.** Founded in 1895 by Mrs. George Linder. It is to be awarded to a needy student who shall have proved himself to be of sound principles and marked ability. \$275

**JAMES EWING MEARS, M.D., SCHOLARSHIP IN MEDICINE.** In 1920 a bequest from the estate of J. Ewing Mears established a scholarship in the Medical School in continuance of one which Dr. Mears gave during his life. To be awarded to a young man whose financial resources are such that he cannot, unaided, acquire a medical education; the beneficiary shall hold the scholarship for the full course of four years, subject to his standing in scholarship and his good conduct. Available 1932-33. \$225

**The JOSEPH PEARSON OLIVER SCHOLARSHIP.** Founded in 1904 by patients of the late Joseph Pearson Oliver, M.D. 1871, to be awarded to a needy and deserving student of the Medical School. \$475

**CHARLES B. PORTER SCHOLARSHIP.** Founded in 1897 from a bequest of five thousand dollars by William L. Chase. \$300

**FLAVIUS SEARLE SCHOLARSHIP.** Established in 1921 from a bequest of Mrs. Mary L. Searle of Boston, in memory of her father, Dr. Flavius Searle. The stipend may be divided. \$350

**CHARLES PRATT STRONG SCHOLARSHIP.** Founded in 1894 by friends and patients of the late Charles Pratt Strong, of the Class of 1876, M.D. 1881. \$275



**ISAAC SWEETSER SCHOLARSHIP.** Founded in 1892 by Mrs. Anne M. Sweetser. The income is to be "devoted to the aid of poor students of ability who would not otherwise be able to continue the studies necessary for their profession." \$375

**The JOHN THOMSON TAYLOR SCHOLARSHIP.** Founded in 1899 by Mrs. Frederic D. Philips in memory of her brother, John Thomson Taylor. The income is to be paid to some meritorious undergraduate of the Medical School without regard to his pecuniary circumstances. \$275

**The WALKER SCHOLARSHIPS.** In 1922 Miss Leslie Walton Walker left a bequest of \$28,000 for the establishment of four scholarships for the benefit of four needy and deserving students of the Medical School, as the Administrative Board shall annually recommend. These scholarships will be known as

The Dr. CHARLES WALKER SCHOLARSHIP No. 1 . . . . .	\$325
The HELEN L. WALKER SCHOLARSHIP No. 2 . . . . .	325
The ANNA G. WALKER SCHOLARSHIP No. 3 . . . . .	325
The LESLIE W. WALKER SCHOLARSHIP No. 4 . . . . .	325

**ABRAHAM A. WATSON SCHOLARSHIP.** Established in 1923, from the estate of the late Miss Catherine E. Walker, the income to be used "as a scholarship for the benefit of students in the Medical School." \$450

**Major HARRISON BRIGGS WEBSTER, U. S. ARMY, SCHOLARSHIP.** Established in 1921 by Mrs. L. Florence Webster in memory of her son, Harrison Briggs Webster of the Class of 1905, Harvard College, 1909, Harvard Medical School, Regimental Surgeon of the 47th U. S. Infantry, awarded a Citation "For unusually conspicuous and meritorious services," and a second Citation, with the Distinguished Service Cross, "For extraordinary heroism in action." Killed in action in the Meuse-Argonne, October 13, 1918. This scholarship is to be awarded to sons of members of the Class of 1905, Harvard College. In case there is no application or award made in any year, the scholarship shall be awarded for that year to a needy student who shall have shown himself to be of sound principles and marked ability. \$225

**EDWARD WIGGLESWORTH SCHOLARSHIP.** Founded in 1897 by the family of the late Edward Wigglesworth, of the Class of 1861, M.D. 1865, the yearly income of the fund to be paid to a needy and deserving student of the Medical School. \$300

#### LOAN FUNDS

*Apply at Dean's Office.*

Funds have been established from which students who are in need of money may make applications for loans.

*Applications for the ensuing year must be made by May 15th but in*

an unforeseen emergency at a later date. Loans are made to meet term-bills and cash is provided rarely. Amounts up to \$400 may be loaned to a student during any one year, and up to a total of \$1,000 during the course, 5% interest being charged.

Loans will be made to students in the second, third, and fourth year classes, whose records have been sufficiently creditable to make it probable that they will remain in the School. Recent matriculants may apply for loans only in their second half-year and then only in case of unanticipated financial difficulty. Loans will rarely be made to married students.

**AESCULAPIAN CLUB LOAN FUND.** Founded by the Aesculapian Club in 1925. To be used as a loan fund to aid students in the Medical School.  
\$150

**THE DAVID L. EDSALL REVOLVING LOAN FUND.** Dr. Frederick C. Shattuck in 1927 established this fund by gift of \$100,000 to be used as a revolving loan fund. The notes are repayable two years after graduation or earlier. The amount likely to be available in any year is about  
\$12,000

**HENRY EHRLICH MEMORIAL FUND.** Established in 1927 by the friends and family of Dr. Henry Ehrlich. The income is to be used for the assistance of needy and worthy students regardless of creed or color.  
\$550

**THE CHARLES WILLIAM ELIOT LOAN FUND.** The first gift to create a loan fund in honor of PRESIDENT ELIOT was made in 1924 by an anonymous donor. The principal and interest from the fund are to be used for loans to students in the Medical School.  
\$750

**JOHN FOSTER FUND.** The income of the John Foster Fund is available in alternate years in the Law School and in the Medical School, for one or more meritorious students needing assistance. The next assignment in the Medical School will be made in 1932-33.  
\$180

**THE JAMES GOLDTHWAITE FREEMAN FUND.** Founded in 1925 from a bequest under the will of Caroline S. Freeman for the assistance of meritorious and deserving medical students.  
\$45

**THE LOAN FUND OF THE MEDICAL CLASS OF 1879.** The Medical Class of 1879 has given the sum of four hundred and thirty-six dollars and seventy-nine cents to be used as a loan fund to aid any student or students in the Medical School in accordance with the request of the Class, or, in the absence of such request, under the direction of the Faculty of Medicine.  
\$175

**FRANCIS SKINNER FUND.** Established in 1905, to be used in small sums to meet the urgent needs of meritorious students in the payment of term-



bills or other expenses. This fund remained as an anonymous gift until 1908, when by vote of the President and Fellows of Harvard College it was named in honor of the late Francis Skinner, Esq., the donor. Available annually. \$300

*Fellowships and Scholarships available in other Departments of the University as well as in the Medical School*

Unless otherwise stated, applications should be made, before *February 10*, to the Dean of the Medical School.

**THE FREDERICK SHELDON FUND FOR TRAVELLING FELLOWSHIPS AND SCHOLARSHIPS.** The income of this Fund is available for holders of any degree from Harvard University. About sixteen fellowships are awarded, the maximum amount being \$1,500

**THE PARKER FELLOWSHIPS.** Established in 1873 in memory of John Parker, Jr., for the instruction, education, and maintenance of one or more students of eminent natural talents or genius for some one or more of the sciences taught in the University. Available for study at the University or in foreign countries. Three at \$1,400

**THE STOUGHTON SCHOLARSHIP.** Established in 1701 from a bequest of Lieutenant Governor WILLIAM STOUGHTON. The income of three thousand and fifty dollars is available for one or more students in any department of the University, preference being given first to students of Dorchester and second, if there be none such, to students of the town of Milton.

**THE VICTOR EMMANUEL CHAPMAN MEMORIAL FELLOWSHIP;** with an income at present of sixteen hundred and fifty dollars. Founded in 1917 by a number of persons who gave jointly the sum of approximately twenty-five thousand dollars in memory of VICTOR EMMANUEL CHAPMAN, of New York, of the Class of 1913, who was killed in action over Verdun, June 23, 1916, while a member of the Flying Corps of the French Army. This fellowship is to be assigned to a French youth (or youths) for study in some department of Harvard University.

**THE DANIEL A. BUCKLEY SCHOLARSHIPS;** for graduates of the public schools of the city of Cambridge.

**THE CHARLES ELLIOTT PERKINS SCHOLARSHIP;** with an income of five hundred dollars, "to be offered each year to a graduate of an Iowa College or University; in any of the graduate or professional departments of Harvard University."

**THE JAMES A. RUMRILL SCHOLARSHIP;** with an income at present of three hundred dollars. This Scholarship, founded in 1909 by Mrs. JAMES A. RUMRILL, in memory of her husband, JAMES AUGUSTUS RUMRILL, of

Springfield, Mass., of the Class of 1859, will be offered each year to a properly qualified graduate of a college or university in Virginia, North Carolina, South Carolina, Florida, Georgia, Tennessee or Kentucky.

THE PRINCETON FELLOWSHIP; with a stipend of six hundred and twenty-five dollars. From a graduate of Princeton University, to be awarded to a graduate of that University studying in any department of Harvard University.

THE JOSEPH HODGES CHOATE MEMORIAL FELLOWSHIP; with an income of twenty-one hundred dollars. Established in 1919 by the Harvard Club of New York City in memory of JOSEPH HODGES CHOATE, of the Class of 1852, American Ambassador to Great Britain from 1899 to 1905. To be awarded, upon the nomination of the Vice-Chancellor of the University of Cambridge, England, to a British subject coming from the University of Cambridge to study in any department of Harvard University. The terms at present require that the candidate shall be either a Bachelor of Arts of not more than three years' standing from the time of taking his degree, or a matriculated undergraduate of not more than three years' standing from the date of his matriculation.

OTHER SCHOLARSHIPS. The following Fellowships and Scholarships, open to students in other Departments of the University, are available also for students in the Medical School: Ellen S. Bates, Baxendale, Caspar Henry Burton, Jr., Charles Downer Fund, Lieutenant Charles Henry Fiske, 3d, Alan Hudson and Frederick E. Parlin. There are also scholarships for students from certain states and localities, for descendants of donors, and for men nominated by Harvard Clubs.

Further information about these scholarships may be obtained from the *University Catalogue* for 1932-33.

### PRIZES

The Bowdoin, Dante, Sumner, and Toppan Prizes, offered by the Faculty of Arts and Sciences, are open to students in all departments of the University. Full particulars in regard to these prizes may be found in the *University Catalogue* for 1932-33.

## ANNOUNCEMENT OF COURSES

The "Announcement of Courses" comprises a statement by each Department as to its general plan of instruction and its various required exercises, followed by a résumé of the Fourth Year Elective Courses and the Voluntary Courses.

Each student in the fourth year must secure credit for eight one-month courses of 144 hours or their equivalent. Required courses fill seven months' time, leaving one month free for elective work. Students may anticipate certain of the required courses during the summer preceding the fourth year and thus gain more time for elective work in the fourth year. In the following statements whole courses have a value of 144 hours, half-courses of 72 hours, and quarter-courses of 36 hours.

Students who devote their spare time to intensive work in a defined field will be given advice and guidance by Tutors who are freely available for that purpose. In the Fourth Year, the Faculty encourages those men who have shown suitable qualities to devote their time largely to concentrated work in a single broad field. Not more than 15% of the class is given the privilege. Men who wish it, apply individually to the Administrative Board, stating in detail their plan of work, after securing the approval of the Tutor and the teacher under whose guidance the actual work will be done.

An opportunity for voluntary work is offered to second and third year students on Tuesday and Thursday afternoons. It is believed that upper-classmen will welcome a chance to keep in touch with the most recent developments in the fundamental sciences; that an interest in certain fundamental subjects will have been aroused by their clinical work; or that they may feel the desire for additional training on some point. Students are not required or even asked to take this work: it is entirely a voluntary matter, and no credit will be given.

Special pamphlets are issued describing the opportunities for elective and voluntary work and outlining the conditions under which such work may be undertaken.

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*Note. — Abbreviations used in the following pages, and in the tabular views:*

B.C.H.	= Boston City Hospital.	H.M.S.	= Harvard Medical School.
B.C.H.S.D.	= Boston City Hospital, Sanatorium Division.	I.H.	= Infants' Hospital (Rotch Memorial).
B.D.	= Boston Dispensary.	M.E. and E.I.	= Massachusetts Eye and Ear Infirmary.
B.I.H.	= Beth Israel Hospital	M.G.H.	= Massachusetts General Hospital.
B.L.I.	= Boston Lying-in Hospital.	N.E.D.H.	= New England Deaconess Hospital.
B.P.H.	= Boston Psychopathic Hospital.	P.B.B.H.	= Peter Bent Brigham Hospital.
C.H.	= Children's Hospital.		
F.H.W.	= Free Hospital for Women.		
H.G.S.	= House of the Good Samaritan.		
H.M.H.	= Huntington Memorial Hospital.		



### Anatomy

J. LEWIS BREMER, M.D., *Hersey Professor of Anatomy.*

FREDERIC T. LEWIS, M.D., *James Stillman Professor of Comparative Anatomy.*

GEORGE B. WISLOCKI, M.D., *Parkman Professor of Anatomy.*

ROBERT M. GREEN, M.D., *Assistant Professor of Applied Anatomy and Instructor in Gynaecology.*

DAVID M. RIOCH, M.D., *Assistant Professor of Anatomy.*

HAROLD L. WEATHERFORD, Ph.D., *Assistant Professor of Histology.*

ALLAN L. GRAFFLIN, M.D., *Instructor in Anatomy.*

TORR W. HARMER, M.D., *Instructor in Anatomy and Assistant in Surgery.*

KENNETH C. FARNSWORTH, M.D., *Assistant in Anatomy.*

FRANK A. HAMILTON, M.D., *Assistant in Anatomy.*

REGINALD D. MARGESON, M.D., *Assistant in Anatomy and in Gynaecology.*

GEORGE C. PRATHER, M.D., *Assistant in Anatomy.*

WILLIAM M. SHEDDEN, M.D., *Assistant in Anatomy.*

In the department of Anatomy, instruction is given in gross human Anatomy, Histology, Neurology, and Embryology. Opportunities are also afforded for advanced work and investigation in these subjects.

The department occupies the Morgan Anatomical Building, the dissecting rooms being in the wing designated B I, and the laboratories for Histology and Embryology in the wing B II. There are separate rooms for fourth year and graduate students and for various kinds of technical work. The class work is carried on by sections in unit rooms, designed to accommodate either twelve or twenty-four students. There is a large library which contains complete files of the most important anatomical and morphological journals, together with many standard works of reference, and in an adjoining room there is a collection of about fifteen thousand pamphlets. A card catalogue and a classified bibliography give ready access to the literature.

The Embryological Collection is a unique feature of the laboratory. It comprises about twenty-three hundred series of sections of carefully selected vertebrate embryos, and affords therefore opportunities for research in comparative embryology such as cannot be found elsewhere. The collection includes eighty series of sections of human embryos, several of which are of exceptional value, among them being two of the very youngest stages of man yet obtained. The collection of embryological models contains the standard series and many unique original models.

### REQUIRED COURSES

ANATOMY A AND B. *First Year.* — The courses of the first year are intended to teach human anatomy, both gross and microscopic, together with the es-

sentials of human embryology and neurology. Half of the time is devoted to work in the dissecting room, the other half to work in the histological and embryological laboratories. In the study of gross anatomy, each student makes a complete dissection of one half of the human body, and all of the class dissect the same part at the same time. Four men will be assigned to the same subject, and will work together during the course. The study of the skeleton is carried on with the dissection, and each student will be provided with a box of bones which may be kept throughout the course. There will be lectures or demonstrations which are arranged to correspond as closely as possible with the work in the dissecting room. These lectures not only will serve as a guide to the regular work in the dissecting room, but also will be used to emphasize those details of human anatomy which the student cannot easily study for himself in his own dissection. Special dissections made by prosectors from the second year class, frozen sections, and various anatomical specimens and preparations will be displayed each day to illustrate and supplement that part of the subject treated in the lecture, or about to be studied in the dissecting room. Students are urged to examine these specimens carefully, and to discuss them informally with the instructors. Students will be quizzed each week on their work in the laboratory by the instructors in charge of their section. Practical examinations only will be given in the first year.

The part of the course dealing with microscopic anatomy is designed to give the student a familiarity with the normal appearances of cells, tissues and organs. As much as is possible in a brief course, the development of tissues and organs is stressed. Opportunity is also given to some extent for the study of fresh tissues. The use of fresh tissues is intended to acquaint the student with the structure of living cells and with evidence of cellular functions. Demonstrations are given from time to time to present the range of histological technique.

The last five weeks of the course of microscopic anatomy are devoted to the study of the central nervous system. The student is given an opportunity to become familiar with the positions and relations of the principal nuclei and tracts of the nervous system by the study of gross specimens and of serial sections through the brain stem. Emphasis is laid on the anatomico-physiological point of view.

## FIRST YEAR

## HOURS

Lectures. Drs. BREMER, LEWIS, WISLOCKI, GREEN, RIOCH and GRAFFLIN. <i>Five lectures a week, first half-year.</i>	96
Demonstrations. <i>To sections of the class, at the pleasure of the instructors.</i>	
Laboratory work. <i>Twenty-one and a half hours a week, first half-year.</i>	344



## FOURTH YEAR ELECTIVE COURSES

1. Surgical Anatomy. Dr. GREEN and assistants. Whole courses, afternoons, October–November, December–January, and February–March.
2. Advanced Vertebrate Embryology. Dr. LEWIS. Whole course, all day, in a month to be arranged with the instructor.
3. Advanced Histology. Dr. BREMER. Whole course, all day, in a month to be arranged with the instructor.
4. Physical Anthropology. Dr. E. A. HOOTON. Whole course, to be arranged with the instructor.
20. Investigation. Opportunities are offered for students who wish to do special or advanced work.

## VOLUNTARY COURSES

20. Advanced Work. Opportunities are offered for advanced work or research in embryology, histology, neurology, or (in so far as material will permit) gross anatomy.
30. Clinical Applied Anatomy. Dr. CHEEVER. Saturdays, 9–10 A.M., October through January, P.B.B.H. Open to first year men.
31. Brain-modelling course. Dr. RIOCH. Tuesdays and Thursdays, 2–5 P.M. October and November. Limited to 15 students. There will be a small charge for material.
32. Topographical Anatomy. Dr. HARMER. Tuesdays or Thursdays, 3.15 to 5 P.M., beginning November first, fifteen exercises. Open to second, third, and fourth year students and to graduates. There will be a small charge for material.

## The Laboratories of Physiology

## PHYSIOLOGY

WALTER B. CANNON, M.D., S.D., LL.D., *George Higginson Professor of Physiology.*

ALEXANDER FORBES, M.D., *Associate Professor of Physiology.*

PHILIP BARD, Ph.D., *Assistant Professor of Physiology and Tutor in Normal Medical Sciences.*

HALLOWELL DAVIS, M.D., *Assistant Professor of Physiology.*

PERCY G. STILES, Ph.D., *Assistant Professor of Physiology.*

ROY G. HOSKINS, M.D., *Research Associate in Physiology.*

MAGNUS I. GREGERSEN, Ph.D., *Instructor in Physiology.*

GORDON C. RING, Ph.D., *Instructor in Physiology.*

CHESTER W. HAMPEL, A.M., *Teaching Fellow in Physiology.*

JAMES O. PINKSTON, S.B., *Teaching Fellow in Physiology.*

LEWIS T. BULLOCK, M.D., *Research Fellow in Physiology and Fellow of The National Research Council.*

- MILTON O. LEE, Ph.D., *Research Fellow in Physiology.*  
ARTURO ROSENBLUETH, M.D., *Research Fellow in Physiology.*  
CHANDLER M. BROOKS, Ph.D., *Research Fellow in Physiology and Fellow of The National Research Council.*  
MARGARET M. SAWYER, Ph.D., *Research Fellow in Physiology.*

## PHYSICAL CHEMISTRY

- LAWRENCE J. HENDERSON, M.D., S.D., *Professor of Biological Chemistry.*  
EDWIN J. COHN, Ph.D., *Associate Professor of Physical Chemistry.*  
RONALD M. FERRY, M.D., *Associate Professor of Biological Chemistry and Tutor in Biochemical Sciences.*  
JOHN T. EDSALL, M.D., *Assistant Professor of Biological Chemistry and Tutor in Biochemical Sciences.*  
THOMAS L. MCMEEKIN, Ph.D., *Research Associate in Physical Chemistry.*  
HARRY EAGLE, M.D., *Research Fellow in Physical Chemistry and Fellow of the National Research Council.*

## PHYSIOLOGY, SCHOOL OF PUBLIC HEALTH

- CECIL K. DRINKER, M.D., *Professor of Physiology.*  
LAWRENCE T. FAIRHALL, Ph.D., *Assistant Professor of Physiology.*  
LOUIS A. SHAW, A.B., *Instructor in Physiology.*  
MADELEINE E. FIELD, Ph.D., *Instructor in Physiology.*  
RANDALL CLIFFORD, M.D., *Research Fellow in Physiology.*  
BENJAMIN H. ADAMS, M.D., *Research Fellow in Physiology.*  
JOHN W. HEIM, S.M., *Research Fellow in Physiology.*  
CHARLES W. SHILLING, M.D., *Research Fellow in Physiology.*  
FLORENCE W. HAYNES, A.M., *Research Fellow in Physiology.*

In the Laboratories of Physiology, the Departments of Physiology and Physical Chemistry of the Harvard Medical School coöperate with the Department of Physiology of the School of Public Health in offering courses of instruction and opportunities for research in the biological and physico-chemical problems of general physiology, in comparative physiology, mammalian physiology, and the physiological problems of general and industrial hygiene.

## REQUIRED COURSES

PHYSIOLOGY A. *First Year.* — In the lectures of this course the object is to acquaint the student with the more fundamental concepts of physiology and to consider in detail those portions of the subject that are essential to an understanding of the phenomena of health and disease in man.

The laboratory exercises aim to discipline the student in the method of experimentation as applied to the acquisition of physiological knowledge,

and to give him first-hand experience with the principal types of experiment employed in the analysis of function.

Conferences and demonstrations supplement the more formal instruction.

	FIRST YEAR	HOURS
Lectures and Laboratory work. Drs. CANNON, DRINKER, DAVIS, BARD, GREGERSEN, and RING, assisted by other members of the staff.		
<i>Three days a week, second half-year.</i>		232

#### FOURTH YEAR ELECTIVE COURSES

- 20a. Physiological Investigation. Drs. CANNON, FORBES, DAVIS, and BARD. Students will not ordinarily be received for less than two full courses.
- 20b. Physical Chemistry of Physiological Processes. Drs. HENDERSON, COHN, and FERRY. Investigation. Not less than one full course.

#### Biological Chemistry

OTTO FOLIN, Ph.D., S.D., M.D., *Hamilton Kuhn Professor of Biological Chemistry.*

CYRUS H. FISKE, M.D., *Associate Professor of Biological Chemistry.*

HARRY C. TRIMBLE, Ph.D., *Assistant Professor of Biological Chemistry*

MILAN A. LOGAN, Ph.D., *Instructor in Biological Chemistry.*

IRVIN S. DANIELSON, S.M., *Teaching Fellow in Biological Chemistry.*

GEORGE H. HITCHINGS, S.M., *Teaching Fellow in Biological Chemistry.*

NORWOOD K. SCHAFFER, S.M., *Teaching Fellow in Biological Chemistry.*

YELLAPRAGADA SUBBA ROW, M.B., Ph.D., *Austin Teaching Fellow in Biological Chemistry.*

#### REQUIRED COURSES

BIOLOGICAL CHEMISTRY A. *First Year.*—The lectures in this course consist of a brief discussion of the theories of chemical constitution and a survey of those classes of chemical substances which are to be found in animals and plants, and of the general principles and more important facts of physiological chemistry.

The laboratory practice is designed to acquaint the student with some of the more important constituents of living matter and their chemical behavior, and with some of the routine methods of biochemical investigation.

Conferences and discussions of selected topics supplement the main work of the course.

	FIRST YEAR	HOURS
Lectures and Laboratory Work. Drs. FOLIN, FISKE, and assistants.		
<i>Three times a week, second half-year.</i>		232



## FOURTH YEAR ELECTIVE COURSES

1. Advanced Course. Whole courses, forenoons, afternoons, or all day, June and July, February through May.

## VOLUNTARY COURSES

- 20 or 30. Advanced Work. Students who are especially interested in methods and problems of biological chemistry will be given opportunity on their free afternoons to do advanced work.

## Bacteriology

HANS ZINSSER, M.D., S.D., *Professor of Bacteriology and Immunology.*

J. HOWARD MUELLER, Ph.D., *Silas Arnold Houghton Associate Professor of Bacteriology and Immunology.*

HUGH K. WARD, M.B., D.P.H., D.A., *Assistant Professor of Bacteriology and Immunology.*

BENJAMIN WHITE, Ph.D., *Assistant Professor of Bacteriology and Immunology and of Preventive Medicine and Hygiene.*

JOHN F. ENDERS, Ph.D., *Instructor in Bacteriology and Immunology.*

FRANCIS B. GRINNELL, M.D., *Associate in Bacteriology and Immunology.*

MAXIMILIANO R. CASTANEDA, M.D., *Instructor in Bacteriology and Immunology.*

LEROY D. FOTHERGILL, M.D., *Instructor in Bacteriology and Immunology and in Pediatrics and Research Associate in Comparative Pathology.*

WILLIAM A. HINTON, M.D., *Instructor in Bacteriology and Immunology and in Preventive Medicine and Hygiene.*

ROBERT N. NYE, M.D., *Instructor in Bacteriology and Immunology.*

ELLIOTT S. A. ROBINSON, M.D., Ph.D., *Instructor in Bacteriology and Immunology and in Preventive Medicine and Hygiene.*

LOUIS L. DIENES, M.D., *Assistant in Bacteriology and Immunology.*

MONROE D. EATON, M.D., *Assistant in Bacteriology and Immunology.*

ELIOT F. PORTER, M.D., *Assistant in Bacteriology and Immunology.*

LEO RANE, Ph.D., *Assistant in Bacteriology.*

ALWIN M. PAPPENHEIMER, Jr., Ph.D., *Research Fellow in Bacteriology.*

CHARLES V. SEASTONE, Jr., M.D., *Research Fellow in Bacteriology and Immunology and Fellow of the National Research Council.*

SAMUEL H. ZIA, M.D., *Research Fellow in Bacteriology.*

The personnel and equipment of the Department of Bacteriology and Immunology are prepared to supply instruction and opportunities for investigation to properly qualified undergraduate and graduate students in general bacteriology, pathogenic bacteriology, and the problems of immunity.

## REQUIRED COURSE

**BACTERIOLOGY A. *Second Year.*** — The required course for medical students is taught by lectures, laboratory work, and conferences. Stress in this course is laid upon those parts of bacteriology and immunology which are directly pertinent to the pathology of infectious disease, its practical diagnosis and treatment. The students are introduced as rapidly as possible to the medical problems of bacteriology, and the subjects taught are illustrated by material obtained from the associated hospitals. Immunological and serological technique in its practical aspects is dealt with by group instruction, and the preventive aspects of the physician's duties in relation to infectious diseases are considered as thoroughly as time permits.

	HOURS
Lectures. Drs. ZINSSER, MUELLER and staff. <i>Mondays, Wednesdays, and Fridays, first half-year.</i>	48
Laboratory work. Drs. ZINSSER, MUELLER, WARD, GRINNELL and staff. <i>Two hours, Mondays, Wednesdays, and Fridays, first half-year.</i>	96

## FOURTH YEAR ELECTIVE COURSE

20. Research. The Department of Bacteriology offers opportunity for special study for one or more months. Students will be accepted for such work and the nature of their studies will be determined by individual conferences between the applicants and members of the staff of the Department.

## VOLUNTARY COURSES

30. Chemical Bacteriology and Immunity. Dr. MUELLER. Time individually arranged for. Open to properly qualified students.

31. Diagnostic Serum Reactions. Dr. HINTON. Time individually arranged for. Open to second, third, and fourth year students.

32. Immunity. Dr. ZINSSER. Tuesdays and Thursdays, 2 P.M., November through January. Open to second, third, and fourth year students and graduates.

33a. Applied Immunology (serums and vaccines). Drs. WHITE and ROBINSON. Tuesdays and Thursdays, 2 to 5, April. Massachusetts State Antitoxin Laboratory. Open to third year students and to students especially qualified. Limited to fifteen students and will not be given to fewer than four. Application should be made to Dr. WHITE at the Laboratory.

33b. Clinical Bacteriology. Dr. NYE. Tuesdays and Thursdays, 3 P.M., April. B.C.H. Limited to twelve students from the third year class, and will not be given to less than four. Application must be made at least a month in advance.



## Pathology

- S. BURT WOLBACH, M.D., *Shattuck Professor of Pathological Anatomy.*  
 FREDERIC PARKER, Jr., M.D., *Assistant Professor of Pathology.*  
 E. ARNOLD G. BRANCH, M.D.C.M., *Instructor in Pathology.*  
 TRACY B. MALLORY, M.D., *Instructor in Pathology.*  
 HENRY PINKERTON, M.D., *Instructor in Pathology.*  
 MONROE J. SCHLESINGER, M.D., *Instructor in Pathology.*  
 SHIELDS WARREN, M.D., *Instructor in Pathology.*  
 IRVING B. AKERSON, M.D., *Instructor in Pathology.*  
 GRANVILLE A. BENNETT, M.D., *Instructor in Pathology.*  
 PAUL E. BOYLE, D.M.D., *Instructor in Pathology.*  
 SIDNEY FARBER, M.D., *Instructor in Pathology.*  
 GEORGE M. HASS, M.D., *Instructor in Pathology.*  
 ARTHUR T. HERTIG, M.D., *Instructor in Pathology and Research Associate in Comparative Pathology.*  
 PERCY R. HOWE, D.D.S., S.D., *Instructor in Pathology and Thomas Alexander Forsyth Professor of Dental Science.*  
 VALY MENKIN, M.D., *Instructor in Pathology.*  
 RUDOLF OSGOOD, M.D., *Instructor in Pathology.*  
 J. STEWART ROONEY, M.D., *Instructor in Pathology.*  
 REUBEN Z. SCHULZ, M.D., *Instructor in Pathology.*  
 JOHN I. BRADLEY, M.D., *Assistant in Pathology.*  
 MIRIAM F. MENKIN, A.M., *Research Fellow in Pathology.*

## REQUIRED COURSES

**PATHOLOGY A. Second Year.** — The course in Pathology consists of laboratory work and lectures. The basis of the laboratory work is a systematic course in pathological histology. In connection with this there are demonstrations of fresh material and museum specimens and experiments on animals bearing on the subjects studied. For demonstrations, autopsy attendance, and experimental work the students are divided into small sections. The demonstrations and experimental work are given in connection with the subjects which are being studied, in rooms adjoining the main laboratory which are adequately provided with apparatus. Lectures are given three days in the week by Dr. WOLBACH and staff. The object of the lecture is to expand and coördinate the knowledge which the student obtains by the study of material and to introduce important recent advances not yet incorporated in text-books. During the entire period of the course groups of students are sent to the various hospitals to see and assist in postmortem examinations. The postmortem material of the Peter Bent Brigham Hospital, the Boston City Hospital,

the Massachusetts General Hospital, the Infants' Hospital, the Children's Hospital, the Boston Lying-In Hospital, the Huntington Hospital, the Palmer Memorial Hospital, the House of the Good Samaritan, and the Long Island Hospital is available for instruction. Each group prepares microscopical specimens of the tissues from each autopsy they attend, and immediately afterwards meets for a conference with one of the instructors, when the whole case is reviewed and discussed. At these conferences the clinical history of the case is read, and as far as possible the pathological findings are correlated with the clinical features. No attempt is made to separate the subject of Pathology into general pathology and pathological anatomy, but the subject is studied as a whole. The more important organs of the body are covered, towards the end of the course, with reference to their special pathology, particularly the blood, liver, spleen, kidneys, pancreas, and genitalia. In teaching, the student is taught methods of work, is given material, and directed, but he is taught to work independently. Tumors and other material coming from the surgical clinics are made full use of in the course. Conferences and recitations will occasionally be substituted for regular laboratory work.

Demonstrations of gross material are held each teaching day in the Warren Museum, which is now an integral part of the Department of Pathology. Special space has been provided for the use of second year students. The Museum is open in the evening and it is extensively utilized by students for purposes of reviews and conferences. Free access to a large collection of unmounted gross material is permitted at all times. Special collections are arranged by the Curator and are kept accessible to the students for long periods throughout the teaching course.

On Saturdays conferences and recitations are substituted for the regular laboratory work.

In the mornings of January Dr. TYZZER will give a course of lectures and laboratory exercises on animal parasites, particularly the protozoa and the infections produced by them.

Approximately fifty hours are given to lectures and laboratory work in neuropathology, certain exercises being interdigitated with the course in general pathology, and twelve consecutive exercises in the more special diseases of the nervous system are given in the spring. (See Neuropathology.)

#### SECOND YEAR

HOURS

Lectures. Dr. WOLBACH and Staff. *Mondays, Wednesdays, and Fridays, for twenty-four weeks.*

72

Laboratory work. Dr. WOLBACH and Staff. *Two and a half hours, Mondays, Wednesdays, and Fridays, first half-year. Section work, two hours, Mondays, Wednesdays, and Fridays, January through March.*

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## FOURTH YEAR ELECTIVE COURSES

1. Advanced Pathology. Dr. PARKER. B.C.H. Whole courses, all day, for one or more months during the school year.
2. Advanced Pathology. Dr. WOLBACH. P.B.B.H. Whole courses, all day, for two or more months during the school year.
3. The Rôle of Allergy in the Pathology of Infectious Diseases. Dr. BRANCH. H.M.S.
4. The Pathology of the Endocrine Diseases. Dr. S. WARREN. N.E.D.H. Whole courses, all day, offered throughout the school year.
5. The Pathology of Tumors. Dr. S. WARREN. H.M.H. and N.E.D.H. Whole courses, all day, for two or more months during the school year.
6. Advanced Pathology. Dr. T. B. MALLORY. M.G.H. Whole courses, or half-courses, mornings or afternoons, first half-year.
20. Research. Whole courses, mornings or afternoons, offered throughout the year. H.M.S. Arrangements should be made with the head of the Department.

## Comparative Pathology

ERNEST E. TYZZER, M.D., *George Fabyan Professor of Comparative Pathology.*

DONALD L. AUGUSTINE, S.D., *Assistant Professor of Helminthology.*

MARSHALL HERTIG, Ph.D., *Assistant Professor of Medical Entomology.*

HANS THEILER, M.R.C.V.S., *Instructor in Comparative Pathology.*

LEROY D. FOTHERGILL, M.D., *Research Associate in Comparative Pathology and Instructor in Bacteriology and Immunology and in Pediatrics.*

ARTHUR T. HERTIG, M.D., *Research Associate in Comparative Pathology and Instructor in Pathology.*

E. ELIZABETH JONES, Ph.D., *Research Associate in Comparative Pathology.*

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 REQUIRED COURSES

COMPARATIVE PATHOLOGY A, PARASITOLOGY. *Second Year.*—Given on Tuesday, Thursday, and Saturday mornings in January. The study of the anatomy and life cycles of the more important species of worms parasitic in the human being is provided for by fresh material for dissection, by stained sections, and by the preserved specimens of the Helminthological Collection. The student is trained to identify these parasites as they appear in the various stages of their development. Parasitic protozoa causing diseases of the human being are also considered with special reference to their identification and life cycles. Human material, cultures, and experimentally infected animals are utilized in the study of these microorganisms. The field of medical entomology is briefly surveyed, with special reference to the arthropods which transmit human disease.



## SECOND YEAR

HOURS

Lectures. Dr. TYZZER and Staff. H.M.S. <i>Three times a week, for four weeks.</i>	12
Demonstrations and laboratory work. Dr. TYZZER and Staff. <i>Three one and one-half hour periods a week, for four weeks.</i>	18

## FOURTH YEAR ELECTIVE COURSE

20a. Comparative Pathological Research. Drs. TYZZER, AUGUSTINE, and HERTIG. To be arranged with the instructor.

*See also Medical Zoölogy and Tropical Medicine, p. 75.*

## Pharmacology

REID HUNT, Ph.D., M.D., S.D., *Professor of Pharmacology.*

WORTH HALE, M.D., *Associate Professor of Pharmacology.*

G. PHILIP GRABFIELD, M.D., *Instructor in Pharmacology.*

HUGH M. CRUMAY, S.B., *Teaching Fellow in Pharmacology.*

## REQUIRED COURSES

PHARMACOLOGY A. In the second year the instruction is given by lectures, recitations, demonstrations, and a laboratory course in which the students have an opportunity of learning the physical and chemical properties of the more important drugs and of performing experiments illustrating the physiological actions of a number of these. A few exercises are given in pharmacy and materia medica, the work consisting of demonstrations and practical exercises. Some attention is also given to toxicology. During the fourth year an opportunity is offered to students of doing more advanced work in experimental pharmacology.

## SECOND YEAR

HOURS

Lectures and demonstrations. Drs. HUNT and HALE. <i>One hour, three times a week, first half-year.</i>	48
Lectures, prescription writing, and quizzes. <i>One hour, three times a week, February to May.</i>	36
Laboratory work, <i>Tuesdays, Thursdays, and Saturdays, first three months.</i>	30

## VOLUNTARY COURSE

30. Advanced Course. Dr. HALE. Tuesdays and Thursdays, 3 P.M. November and December.

## Legal Medicine

GEORGE B. MAGRATH, M.D., A.M., *Professor of Legal Medicine.*



## REQUIRED COURSE

*Third year*—A series of six lectures on the first, second, fifth, sixth, seventh and eighth Fridays of the third year course at 4.15 P.M.

## THIRD YEAR

Lectures. Dr. MAGRATH. H.M.S. First half-year. 6

## VOLUNTARY COURSE

30. Legal Medicine. Dr. MAGRATH. Second half-year.

A Fellowship in Legal Medicine with a stipend of \$1500, open to graduates in medicine, has been provided for the year 1932-33 through a gift.

## Medicine

Under this Division are included Medicine and the specialties relating chiefly to Medicine:—Dermatology and Syphilology, Diseases of the Nervous System (Neurology, Neuropathology, and Psychiatry), Ophthalmology, Pediatrics, and Roentgenology.

## MEDICINE

HENRY A. CHRISTIAN, M.D., A.M., LL.D., S.D., *Hersey Professor of the Theory and Practice of Physic.*

JAMES H. MEANS, M.D., *Jackson Professor of Clinical Medicine.*

GEORGE R. MINOT, M.D., S.D., *Professor of Medicine.*

RICHARD C. CABOT, M.D., *Professor of Clinical Medicine.*

JOSEPH C. AUB, M.D., *Associate Professor of Medicine.*

HERRMAN L. BLUMGART, M.D., *Associate Professor of Medicine.*

ARLIE V. BOCK, M.D., Ph.D., *Associate Professor of Medicine.*

WILLIAM B. CASTLE, M.D., *Associate Professor of Medicine.*

REGINALD FITZ, M.D., *Associate Professor of Medicine and Physician to Students.*

SOMA WEISS, M.D., *Associate Professor of Medicine.*

GEORGE W. HOLMES, M.D., *Clinical Professor of Roentgenology.*

ELLIOTT P. JOSLIN, M.D., A.M., *Clinical Professor of Medicine.*

EDWIN A. LOCKE, M.D., *Clinical Professor of Medicine.*

FREDERICK T. LORD, M.D., *Clinical Professor of Medicine.*

CHANNING FROTHINGHAM, M.D., *Associate Clinical Professor of Medicine and Chairman of the Department.*

WALTER BAUER, M.D., *Assistant Professor and Tutor in Medicine.*

PATRICK F. BUTLER, M.D., *Assistant Professor of Roentgenology.*

CLIFFORD L. DERICK, M.D.C.M., *Assistant Professor of Medicine.*

HENRY JACKSON, Jr., M.D., *Assistant Professor of Medicine.*

CHESTER M. JONES, M.D., *Assistant Professor of Medicine.*

CHESTER S. KEEFER, M.D., *Assistant Professor of Medicine.*

SAMUEL A. LEVINE, M.D., *Assistant Professor of Medicine.*

JAMES P. O'HARE, M.D., *Assistant Professor of Medicine.*

- FRANCIS W. PALFREY, M.D., *Assistant Professor of Medicine.*  
MERRILL C. SOSMAN, M.D., *Assistant Professor of Roentgenology.*  
FRANK H. HUNT, M.D., *Instructor in Medicine.*  
ROBERT T. MONROE, M.D., *Instructor in Medicine.*  
W. RICHARD OHLER, M.D., *Instructor in Medicine.*  
FRANCIS M. RACKEMANN, M.D., *Instructor in Medicine.*  
WILLIAM T. SALTER, M.D., *Instructor in Medicine.*  
PAUL D. WHITE, M.D., *Instructor in Medicine.*  
FULLER ALBRIGHT, M.D., *Instructor and Henry Pickering Walcott Fellow in Clinical Medicine.*  
EDWARD S. EMERY, Jr., M.D., *Instructor in Medicine.*  
FRANCIS C. HALL, M.D., *Instructor in Medicine.*  
T. DUCKETT JONES, M.D., *Instructor in Medicine.*  
WILLIAM P. MURPHY, M.D., *Instructor in Medicine.*  
WHEELAN D. SUTLIFF, M.D., *Instructor in Medicine.*  
JOHN H. TALBOTT, M.D., *Instructor in Medicine.*  
EDWARD C. VOGT, M.D., *Instructor in Roentgenology.*  
LOUIS WOLFF, M.D., *Instructor in Medicine.*  
THEODORE L. BADGER, M.D., *Assistant in Medicine.*  
MYLES P. BAKER, M.D., *Assistant in Medicine.*  
WALTER O. BLANCHARD, M.D., *Assistant in Medicine.*  
EDWARD F. BLAND, M.D., *Assistant in Medicine.*  
HARRY BLOTNER, M.D., *Assistant in Medicine.*  
ALLEN G. BRAILEY, M.D., *Assistant in Medicine.*  
DAVID DAVIS, M.D., *Assistant in Medicine.*  
HARRY A. DEROW, M.D., *Assistant in Medicine.*  
LAURENCE B. ELLIS, M.D., *Assistant in Medicine.*  
JAMES M. FAULKNER, M.D., *Assistant in Medicine.*  
MARSHALL N. FULTON, M.D., *Assistant in Medicine.*  
SAMUEL L. GARGILL, M.D., *Assistant in Medicine.*  
RICHARD G. HAHN, M.D., *Assistant in Medicine.*  
AUBREY O. HAMPTON, M.D., *Assistant in Roentgenology.*  
DONALD S. KING, M.D., *Assistant in Medicine.*  
RICHARD B. KING, M.D., *Assistant in Medicine.*  
H. LOUIS KRAMER, M.D., *Assistant in Medicine.*  
JACOB LERMAN, M.D., *Assistant in Medicine.*  
ALEXANDER MARBLE, M.D., *Assistant in Medicine.*  
F. WILLIAM MARLOW, Jr., M.D., *Assistant in Medicine.*  
WALTER K. MYERS, M.D., *Assistant in Medicine.*  
H. ALLAN NOVACK, M.D., *Assistant in Medicine.*  
ROBERT S. PALMER, M.D., *Assistant in Medicine.*  
GEORGE P. REYNOLDS, M.D., *Assistant in Medicine.*  
WYMAN RICHARDSON, M.D., *Assistant in Medicine.*

- JOSEPH E. F. RISEMAN, M.D., *Assistant in Medicine.*  
 MAX RITVO, M.D., *Assistant in Roentgenology.*  
 GEORGE P. ROBB, M.D., *Assistant in Medicine.*  
 SAMUEL A. ROBINS, M.D., *Assistant in Roentgenology.*  
 FREDERICK H. SCHARLES, M.D., *Assistant in Medicine.*  
 RICHARD P. STETSON, M.D., *Assistant in Medicine.*  
 WILLIAM B. STEVENS, M.D., *Assistant in Medicine.*  
 MAURICE B. STRAUSS, M.D., *Assistant in Medicine and in Tropical Medicine.*  
 JAMES H. TOWNSEND, M.D., *Assistant in Medicine.*  
 JOHN M. FLYNN, M.D., *Assistant Physician to Students.*  
 J. PERCY BAUMBERGER, S.D., *Research Associate in Medicine.*  
 JAMES P. BAKER, Jr., M.D., *Research Fellow in Medicine.*  
 JOSEPH B. BOLAND, Jr., M.D., *Research Fellow in Medicine.*  
 JOHN F. BROCK, M.B., B.Ch., M.R.C.P., *Research Fellow in Medicine.*  
 SAMUEL BROWN, M.D., *Research Fellow in Medicine.*  
 AUSTIN M. BRUES, M.D., *Research Fellow in Medicine.*  
 WILLIAM B. CHEW, M.D., *Research Fellow in Medicine.*  
 LOWREY F. DAVENPORT, M.D., *Research Fellow in Medicine.*  
 CLIFFORD C. FRANSEEN, M.D., *Research Fellow in Medicine.*  
 DOROTHY R. GILLIGAN, S.M., *Research Fellow in Medicine.*  
 BERNARD M. JACOBSON, M.D., *Research Fellow in Medicine.*  
 CLARENCE L. LAWS, M.D., *Research Fellow in Medicine.*  
 GULLI L. MULLER, M.D., *Research Fellow in Medicine.*  
 ROBERT J. PARSONS, M.D., *Research Fellow in Medicine.*  
 ARTHUR J. PATEK, Jr., M.D., *Research Fellow in Medicine.*  
 ROBERT A. PHILLIPS, M.D., *Research Fellow in Medicine.*  
 FRANK A. SIMON, M.D., *Research Fellow in Medicine.*  
 FRANCIS H. L. TAYLOR, Ph.D., *Research Fellow in Medicine.*  
 HOWARD A. VAN AUKEN, M.D., *Research Fellow in Medicine.*  
 ALEXANDER W. WINKLER, M.D., *Research Fellow in Medicine.*
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MAXWELL FINLAND, M.D., *Francis Weld Peabody Fellow in Medicine.*

#### REQUIRED COURSES

The instruction given by the Department of Medicine consists in lectures, recitations, amphitheatre clinics, practical work in the out-patient departments and wards of the hospitals, and a course in clinical pathology which is given at the Harvard Medical School in the laboratory of the Department. The time given to the Department of Medicine in the medical curriculum comes in the second half of the second year and throughout the third and fourth years.



*Second Year.* — During the second half of the second year, instruction in the methods of history taking, physical examination, and laboratory technique is given. Also there are a few lectures and demonstrations introductory to internal medicine.

*Third Year.* — Throughout the third year the subjects of internal medicine are covered in exercises for the whole class by clinics or lectures which are given at the various hospitals or at the Harvard Medical School. For their practical work the students throughout this year are divided into small groups and work in the wards or out-patient departments of the four larger hospitals connected with the Medical School on problems of internal medicine. The individual student spends his entire time in one hospital, and in a small group, under the direct supervision of instructors especially assigned for this work.

*Fourth Year.* — In this year the students serve as clinical clerks in the wards of a general hospital for two or three months, part of which time is devoted to acting as assistants to the clinic in the out-patient departments. Each student is expected to work up some problem to present for discussion during these months. In this year the students who elect three months of medicine will have special instruction at a hospital exclusively for tuberculous patients.

#### VOLUNTARY AND ELECTIVE COURSES

Numerous opportunities, in the form of voluntary courses, are offered throughout the academic year to students of the second, third, and fourth year classes. These courses vary in number and in the subjects covered from year to year.

In addition to the required courses for fourth year students the department offers several opportunities for specially qualified students to take advanced courses and carry on research problems in internal medicine.

#### FACILITIES FOR INSTRUCTION

The instruction is given at the Harvard Medical School, the Peter Bent Brigham Hospital, the Massachusetts General Hospital, the Boston City Hospital, the Beth Israel Hospital and several other hospitals devoted to special purposes. In these hospitals abundant and varied clinical material is available for the conduct of the numerous exercises.

#### SECOND YEAR

HOURS

Lectures and demonstrations on physical diagnosis and certain aspects of clinical medicine. Drs. JACKSON, MEANS, JONES, and associates.

90

Exercises in sections, physical diagnosis and history taking. Dr. JACKSON, and assistants. B.C.H., M.G.H., and H.G.S. *Each student has twenty-nine exercises.*

70



Clinical Pathological exercises. Dr. MONROE and assistants. H.M.S.  
*Three times a week.*

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## THIRD YEAR

Lectures, recitations, and clinics on selected topics in internal medicine. Drs. CHRISTIAN, MINOT, MEANS, BLUMGART, AUB, LOCKE, FROTHINGHAM, DERICK, and EMERY. *Throughout the year.* 70

Exercises in sections in the wards and out-patient departments at the M.G.H., B.C.H., P.B.B.H., and B.I.H. *Each section has thirty-two exercises of two and a half hours each and twenty-one exercises of three hours each.* 143

## FOURTH YEAR

Clinical clerkship at M.G.H. (Medicine 1, Dr. MEANS and associates), B.C.H. (Medicine 2, Dr. MINOT and associates), P.B.B.H. (Medicine 3, Dr. CHRISTIAN and associates), or B.I.H. (Medicine 4, Dr. BLUMGART and associates, *first half-year only.*) 288 or 432

## ELECTIVE COURSES IN MEDICINE

## FOURTH YEAR

5. Advanced studies in Medicine. Dr. MEANS. M.G.H.
6. Advanced studies in Medicine. Drs. MINOT, LOCKE, CASTLE, JACKSON, KEEFER, PALFREY, WEISS, OHLER, and Associates. B.C.H. Special arrangements can be made for men to spend half of their time in the tuberculosis clinics.
7. Advanced studies in Medicine. Dr. CHRISTIAN. P.B.B.H.
8. Advanced studies in Medicine. Dr. BLUMGART. B.I.H.
9. Roentgenology. Drs. HOLMES (M.G.H.), BUTLER (B.C.H.), and SOSMAN (P.B.B.H.).
10. Advanced studies in Medicine. Dr. JOSLIN and Associates. N.E.D.H.
11. Advanced Studies in Medicine. Dr. AUB and Associates. H.M.H.

## VOLUNTARY COURSES IN MEDICINE

20. Special Studies at H.M.H. Dr. AUB and Associates. Time to be arranged.
30. Clinical Medicine. Drs. MINOT, CASTLE, JACKSON, KEEFER, and WEISS. Tuesdays and Thursdays, 2 p.m., throughout the year, B.C.H.
31. Diagnostic and Therapeutic Clinics. Dr. CHRISTIAN. Thursdays, 3.30 p.m., throughout the year, P.B.B.H.
32. Functional Disease. Drs. CAMPBELL, COBB, C. M. JONES, and Associates. Tuesdays and Thursdays, 2.30 p.m., October, B.P.H., M.G.H., and B.C.H.

- 33a. Metabolic Diseases. Dr. AUB and Associates. Tuesdays and Thursdays, 2 to 3.30 P.M., November, H.M.H.
- 33b. Diseases of the Heart. Drs. P. D. WHITE and SPRAGUE. Tuesdays and Thursdays, 2 P.M., November, M.G.H.
- 33c. Psychoneurotic Problems of Internal Medicine. Thursdays, 2 to 4 P.M., November, B.C.H.
- 34a. Diseases of the Lungs. Dr. BADGER. Tuesdays and Thursdays, 2 to 4 P.M., November and December, B.C.H.
- 34b. Diseases of the Thyroid. Drs. GARGILL and FINE. Tuesdays, 2.30 to 4 P.M., November and December, B.I.H.
- 34c. Diseases of the Lungs. Dr. R. CLIFFORD. Tuesdays and Thursdays, 2 to 3 P.M., December, P.B.B.H.
35. Clinical Electrocardiography. Dr. LEVINE. Thursdays, 4.30 to 5.30 P.M., November and December, P.B.B.H.
- 36a. Bacterial Allergy as a Cause of Disease. Dr. DERICK. Tuesdays and Thursdays, 2 to 3.30 P.M., January, P.B.B.H.
- 36b. Diagnosis and Treatment of Bright's Disease. Dr. DEROW. Tuesdays and Thursdays, 2 P.M., January, B.I.H.
- 36c. Clinical Physiology. Dr. BLUMGART. Tuesdays, 2 to 3.30 P.M., January, February, and March, B.I.H. Open to second year students.
- 37a. Medical Treatment of Common Diseases. Dr. PALFREY. Tuesdays, 2 P.M., February and March, H.M.S. [Not offered in 1933.]
- 37b. Diseases of the Thyroid and other Endocrines. Drs. MEANS, LERMAN, and ALBRIGHT. Tuesdays and Thursdays, 2 P.M., February, M.G.H.
- 37c. Diseases of the Cardiovascular System. Dr. BLUMGART. Thursdays, 2 to 4 P.M., February and March, B.I.H.
- 37d. Pulmonary Tuberculosis. Drs. D. S. KING and E. D. CHURCHILL. Tuesdays and Thursdays, 2 to 4 P.M., March, M.G.H., Channing Home, and State Tuberculosis Sanatoria.
38. Correlation of Physical Signs. Dr. OHLER. Thursdays, 3 to 5 P.M., March and April, B.C.H.
- 39a. Hypertensive Disease and Nephritis. Dr. O'HARE. Tuesdays and Thursdays, 2 P.M., April, P.B.B.H.
- 39b. Diabetes. Dr. MARBLE. Tuesdays and Thursdays, 2 to 4 P.M., April, N.E.D.H.

#### DERMATOLOGY AND SYPHILOLOGY

- E. LAWRENCE OLIVER, M.D., *Clinical Professor of Dermatology and Syphilology.*
- ARTHUR M. GREENWOOD, M.D., *Instructor in Dermatology and Syphilology.*
- EDWARD W. KARCHER, M.D., *Instructor in Dermatology and Syphilology.*

C. GUY LANE, M.D., *Instructor in Dermatology and Syphilology.*  
 JACOB H. SWARTZ, M.D., *Instructor in Dermatology and Syphilology.*  
 AUSTIN W. CHEEVER, M.D., *Assistant in Dermatology and Syphilology.*  
 JOHN G. DOWNING, M.D., *Assistant in Dermatology and Syphilology.*

## REQUIRED COURSES

*Third Year.*—A series of five lectures is given on five succeeding Tuesdays in the first half-year. These lectures are elementary in character and are intended to give a bare outline only. The clinical section work is given at the Massachusetts General Hospital and the Beth Israel Hospital throughout the year, each section receiving instruction in the clinic from 10 to 1 daily. In the section work it is usually possible to present to the students most of the common important diseases of the skin and many of the manifestations of syphilis, which the students can observe and examine most minutely.

## THIRD YEAR

## HOURS

Lectures. Dr. OLIVER. H.M.S. <i>Five lectures, first half-year.</i>	5
Section work. Clinical Dermatology and Syphilology. Drs. GREEN- WOOD, LANE, SWARTZ, KARCHER, CHEEVER, and DOWNING. M.G.H. and B.I.H. <i>Each student attends ten or eleven exer- cises of three hours each.</i>	32

## FOURTH YEAR ELECTIVE COURSES

1. Clinical Dermatology. Dr. OLIVER. Half-courses, forenoons, October, December, February, and April.
2. Advanced Dermatology. Dr. OLIVER and assistants. Clinical clerkship. Whole courses, all day, October, December, February, and April.

## DISEASES OF THE NERVOUS SYSTEM

This department is composed of three divisions:—

1. PSYCHIATRY, under Dr. CAMPBELL, at the Boston Psychopathic Hospital.
2. NEUROLOGY, under Dr. AYER, at the Massachusetts General Hospital and Dr. COBB, at the Boston City Hospital. (Dr. CROTHERS, at the Children's Hospital, in association with the Department of Pediatrics, will give instruction in nervous diseases of children.)
3. NEUROPATHOLOGY, under Dr. COBB, at the Harvard Medical School.

C. MACFIE CAMPBELL, M.D., *Professor of Psychiatry.*  
 STANLEY COBB, M.D., *Bullard Professor of Neuropathology.*  
 JAMES B. AYER, M.D., *James Jackson Putnam Clinical Professor of Neu-  
rology and Chairman of the Department.*  
 KARL M. BOWMAN, M.D., *Assistant Professor of Psychiatry.*



- FRANK FREMONT-SMITH, M.D., *Assistant Professor of Neuropathology.*  
 HARRY C. SOLOMON, M.D., *Assistant Professor of Psychiatry.*  
 F. LYMAN WELLS, Ph.D., *Assistant Professor of Psychology.*  
 TRACY J. PUTNAM, M.D., *Instructor in Neuropathology.*  
 GEORGE CLYMER, M.D., *Instructor in Neurology.*  
 WILLIAM HERMAN, M.D., *Instructor in Psychiatry.*  
 M. RALPH KAUFMAN, M.D.C.M., *Instructor in Psychiatry.*  
 WILLIAM G. LENNOX, M.D., S.D., *Instructor in Neuropathology.*  
 DONALD J. MACPHERSON, M.D., *Instructor in Neuropathology.*  
 CHARLES A. McDONALD, M.D., *Instructor in Neurology.*  
 HIRAM H. MERRITT, M.D., *Instructor in Neuropathology.*  
 MARTIN W. PECK, M.D., *Instructor in Psychiatry.*  
 OSCAR J. RAEDER, M.D., *Instructor in Psychiatry.*  
 KENNETH J. TILLOTSON, M.D., *Instructor in Psychiatry.*  
 HENRY R. VIETS, M.D., *Instructor in Neurology.*  
 WILFRED BLOOMBERG, M.D., *Assistant in Neurology.*  
 G. COLKET CANER, M.D., *Assistant in Neurology.*  
 EDWIN M. COLE, M.D., *Assistant in Neurology.*  
 SAMUEL H. EPSTEIN, M.D., *Assistant in Psychiatry.*  
 IVES HENDRICK, M.D., *Assistant in Psychiatry.*  
 CHARLES S. KUBIK, M.D., *Assistant in Neurology and in Neuropathology.*  
 LAWRENCE R. MORRISON, M.D., *Assistant in Neuropathology.*  
 PHILIP SOLOMON, M.D., *Assistant in Neuropathology.*  
 MARY E. DAILEY, A.B., *Research Associate in Neuropathology.*  
 IRMA BACKE, M.D., *Research Fellow in Psychiatry.*  
 SAMUEL J. BECK, Ph.D., *Research Fellow in Psychology.*  
 GAYLORD P. COON, M.D., *Research Fellow in Psychiatry.*  
 FRANK C. d'ELSEAUX, M.D., *Research Fellow in Psychiatry.*  
 JACOB E. FINESINGER, M.D., *Research Fellow in Psychiatry.*  
 KNOX H. FINLEY, M.D., *Research Fellow in Neuropathology.*  
 HENRY S. FORBES, M.D., *Research Fellow in Neuropathology.*  
 JOSEPH J. MICHAELS, M.D., *Research Fellow in Psychiatry.*  
 MERRILL MOORE, M.D., *Research Fellow in Psychiatry.*  
 WILLIAM F. ROTH, M.D., *Research Fellow in Psychiatry.*  
 LEON J. SAUL, M.D., *Research Fellow in Psychiatry.*  
 WILLIAM C. M. SCOTT, M.B., *Research Fellow in Psychiatry.*  
 CONRAD WALL, M.D., *Research Fellow in Psychiatry.*

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#### NEUROLOGY

##### REQUIRED COURSES

*Second Year.* — Clinical lectures are given at the Massachusetts General Hospital to the entire class. The object of the course is to give the student



a general knowledge of the principles of diagnosis and treatment of diseases of the nervous system as a preparation for later work.

*Third Year.*—Clinical lectures are given during January of the third year, at the Massachusetts General Hospital. The members of the class are also required to work in the neurological service at the M.G.H. or B.C.H. in sections during the year. For this work the more didactic teaching of the second year serves as a necessary preparation. The work is practical in character and serves to bring the student into immediate contact with patients.

## SECOND YEAR

HOURS

Clinical lectures. Dr. AYER. M.G.H. 15

## THIRD YEAR

Clinical lectures. Dr. AYER. M.G.H. *Saturdays in January.* 4

Section teaching. Each student attends ten or eleven two-and-a-half-hour exercises in Neurology. M.G.H. and B.C.H. 27

## FOURTH YEAR ELECTIVE COURSES

1. Neurology. Whole courses (clerkships), all day, M.G.H. or B.C.H.
2. Advanced Neurology. Special opportunities are offered to those who intend to enter this field of medicine, at the M.G.H. with Dr. AYER or at the B.C.H. with Dr. COBB.

## VOLUNTARY COURSES

30. Functional Disease. Drs. CAMPBELL, COBB, C. M. JONES and Associates. Tuesdays and Thursdays, 2.30 P.M. October, B.P.H., B.C.H., and M.G.H. (See Medicine 32.)
31. Psychoneurotic Problems of Internal Medicine. Thursdays, 2-4 P.M., November, B.C.H.

## NEUROPATHOLOGY

## REQUIRED COURSE

NEUROPATHOLOGY A. *Second Year.*—The course consists of lectures, laboratory work, and demonstrations, amounting to forty-five hours. The exercises are appropriately integrated with the clinical lectures in Neurology. The lectures introduce conceptions of value for the third year courses in neurology and psychiatry and for the neurological parts of courses in internal medicine and in surgery. The histopathological part of the laboratory work deals with the inflammatory reactions, the classical degenerations, etc. Gross pathological specimens are also shown and physiological demonstrations are given to illustrate living pathological processes.

## SECOND YEAR

HOURS

Lectures and laboratory work. The Staff, *Three times a week, for five weeks* 45

## FOURTH YEAR ELECTIVE COURSE

20. Research. Opportunities for research are available at the Laboratories of the M.G.H., B.C.H., and B.P.H. Time to be arranged.

## PSYCHIATRY

## REQUIRED COURSES

*First Year.*—Medical Psychology. Physiology deals with the reactions of the various organs and systems; psychology deals with the reactions of the individual to the environment. In this course on medical psychology the student will have an opportunity of studying briefly the emotional reactions, their modification by experience, the rôle played in these reactions by the various systems; the ability to receive, elaborate, store, and reactivate impressions; variations in constitutional endowment; special lines of weakness; the importance of personal factors in medicine in general, and especially in relation to nervous and mental disorders.

*Third Year.*—During the second half-year clinical lectures will be given once a week at the Psychopathic Hospital. An endeavor will be made to present examples of the most important varieties of mental disorder, with special emphasis on the mild and incipient cases which are frequently treated by the general practitioner. More attention will be given to the dynamic analysis and the practical problems of the individual case than to questions of formal classification. Some examples of nervous and mental disorders of childhood will be presented.

For bed-side work the class is divided into small sections, and each student will be given opportunity for personally studying individual cases.

## FIRST YEAR

## HOURS

Lectures on Medical Psychology. Dr. CAMPBELL. B.P.H. <i>Once a week, for ten weeks.</i>	10
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## THIRD YEAR

Clinical lectures. Dr. CAMPBELL and assistants. B.P.H. <i>Once a week, second half-year.</i>	16
Section teaching. Each student attends ten or eleven three-hour exercises.	32

## FOURTH YEAR ELECTIVE COURSE

3. Psychiatry. Whole courses, all day, or half-courses, forenoons, offered throughout the year.

## VOLUNTARY COURSES

30. Functional Disease. Drs. CAMPBELL, COBB, C. M. JONES, and Associates. Tuesdays and Thursdays, 2.30 P.M., October, B.P.H., B.C.H., and M.G.H. (See Medicine 32.)

32. Psychiatry. Staff of the Department of Psychiatry, Tuesdays and Thursdays, 2-3 P.M., December and January, B.P.H.
33. Psychotherapy in the Treatment of the Neuroses. Dr. W. HERMAN. Tuesdays and Thursdays, 4-5.30 P.M., February, B.C.H.

## OPHTHALMOLOGY

- J. HERBERT WAITE, M.D., *Assistant Professor of Ophthalmology.*
- HUGO B. C. RIEMER, M.D., *Instructor in Ophthalmology.*
- WILLIAM P. BEETHAM, M.D., *Assistant in Ophthalmology.*
- VIRGIL G. CASTEN, M.D., *Assistant in Ophthalmology.*
- PAUL A. CHANDLER, M.D., *Assistant in Ophthalmology.*
- EDWIN B. DUNPHY, M.D., *Assistant in Ophthalmology.*
- TRYGVE GUNDERSEN, M.D., *Assistant in Ophthalmology and in Ophthalmic Research.*
- MERRILL J. KING, M.D., *Assistant in Ophthalmology and in Ophthalmic Research.*
- HARRY K. MESSENGER, Ph.D., M.D., *Assistant in Ophthalmology and in Ophthalmic Research.*
- BENJAMIN SACHS, M.D., *Assistant in Ophthalmology.*
- THEODORE L. TERRY, M.D., *Assistant in Ophthalmology.*

## REQUIRED COURSES

*Third Year.*—Instruction in Ophthalmology consists of:—

1. Four exercises at the Medical School devoted to the demonstration of lantern slides and illustrations of the subject matter to be considered.
2. Ten or eleven clinical exercises of two and one-half hours each in sections at the Massachusetts Eye and Ear Infirmary, devoted to methods of examination, diagnosis, and treatment. Twelve hours of the foregoing is devoted to the use of the ophthalmoscope.

## THIRD YEAR

HOURS

Clinical exercises. Drs. WAITE, DUNPHY, CHANDLER, RIEMER, SACHS, TERRY, CASTEN, and GUNDERSEN. *In sections throughout the year.*

27

Demonstrations and quizzes. H.M.S. *Once a week, May.*

## FOURTH YEAR ELECTIVE COURSES

1. Clinical Ophthalmology. Dr. WAITE. Whole course, mornings, occupying two months during the first half-year. Limited to four men a month.
2. Clinical Ophthalmology. Half-course, mornings, occupying one month. Comprises the first month of Ophthalmology 1.



### Howe Laboratory of Ophthalmology

FREDERICK H. VERHOEFF, M.D., A.M., *Professor of Ophthalmic Research, Director.*

CLYDE E. KEELER, S.D., *Instructor in Ophthalmic Research.*

HUGO L. BAIR, M.D., *Assistant in Ophthalmic Research.*

TRYGVE GUNDERSEN, M.D., *Assistant in Ophthalmic Research and in Ophthalmology.*

MERRILL J. KING, M.D., *Assistant in Ophthalmic Research and in Ophthalmology.*

HARRY K. MESSENGER, Ph.D., M.D., *Assistant in Ophthalmic Research and in Ophthalmology.*

The Howe Laboratory of Ophthalmology was founded in 1927 by the late Dr. Lucien Howe. A sum of money equal to that given by Dr. Howe was donated by the Rockefeller Foundation. Laboratory space was provided by the Massachusetts Eye and Ear Infirmary. Dr. Howe was the first director of the laboratory, but the laboratory was not definitely organized until August 1, 1931.

The purpose of the laboratory is to advance ophthalmology, and its researches will not be restricted to any particular phase of this science. Advantage will be taken of the rich clinical material of the Infirmary. While the laboratory is purely an institution for research, the services of the various members of the staff are available for teaching in the Harvard Medical School and for assistance in the clinical work of the Infirmary.

### PEDIATRICS

KENNETH D. BLACKFAN, M.D., *Thomas Morgan Rotch Professor of Pediatrics.*

JAMES L. GAMBLE, M.D., S.M., *Professor of Pediatrics.*

BRONSON CROTHERS, M.D., *Assistant Professor of Pediatrics.*

HAROLD L. HIGGINS, M.D., *Assistant Professor of Pediatrics.*

CHARLES F. MCKHANN, M.D., *Assistant Professor of Pediatrics and Communicable Diseases.*

RICHARD M. SMITH, M.D., S.D., *Assistant Professor of Pediatrics and Child Hygiene.*

HAROLD C. STUART, M.D., *Assistant Professor of Pediatrics and Child Hygiene.*

ALLAN M. BUTLER, M.D., *Instructor in Pediatrics.*

MAYNARD LADD, M.D., *Associate in Pediatrics.*

CONRAD WESSELHOEFT, M.D., *Associate in Communicable Diseases.*

RANDOLPH K. BYERS, M.D., *Instructor in Pediatrics.*

PAUL W. EMERSON, M.D., *Instructor in Pediatrics.*

RICHARD S. EUSTIS, M.D., *Instructor in Pediatrics.*



LEROY D. FOTHERGILL, M.D., *Instructor in Pediatrics and in Bacteriology and Immunology and Research Associate in Comparative Pathology.*

HENRY E. GALLUP, M.D., *Instructor in Pediatrics.*

JOSEPH GARLAND, M.D., *Instructor in Pediatrics.*

LEWIS W. HILL, M.D., *Instructor in Pediatrics.*

GERALD N. HOFFEL, M.D., *Instructor in Pediatrics.*

ELIOT HUBBARD, JR., M.D., *Instructor in Pediatrics.*

EDWARD S. O'KEEFE, M.D., *Instructor in Pediatrics.*

ELI C. ROMBERG, M.D., *Instructor in Pediatrics.*

WARREN R. SISSON, M.D., *Instructor in Pediatrics.*

ABRAHAM S. SMALL, M.D., *Instructor in Pediatrics and Child Hygiene.*

EDWARD C. SMITH, M.D., *Instructor in Communicable Diseases.*

PHILIP H. SYLVESTER, M.D., *Instructor in Pediatrics.*

RICHARD C. TEFFT, JR., M.D., *Instructor in Pediatrics.*

JAMES L. WILSON, M.D., *Instructor in Pediatrics.*

EDWIN T. WYMAN, M.D., *Instructor in Pediatrics.*

STEWART H. CLIFFORD, M.D., *Assistant in Pediatrics and Child Hygiene.*

ROBERT D. CURTIS, M.D., *Assistant in Pediatrics.*

RALPH W. DAFFINEE, M.D., *Assistant in Pediatrics.*

LOUIS K. DIAMOND, M.D., *Assistant in Pediatrics.*

R. CANNON ELEY, M.D., *Assistant in Pediatrics and Communicable Diseases.*

ROBERT N. GANZ, M.D., *Assistant in Pediatrics.*

STANTON GARFIELD, M.D., *Assistant in Pediatrics and Child Hygiene.*

HENRY L. GEORGE, M.D., *Assistant in Pediatrics.*

ELIOT H. LUTHER, M.D., *Assistant in Pediatrics.*

ARTHUR B. LYON, M.D., *Assistant in Pediatrics.*

WILFRED L. MCKENZIE, M.B., *Assistant in Pediatrics.*

NORMAN A. POKORNY, M.D., *Assistant in Pediatrics.*

DAVID W. SHERWOOD, M.D., *Assistant in Pediatrics.*

HARVEY SPENCER, M.D., *Assistant in Pediatrics and Child Hygiene.*

ELIZABETH E. LORD, Ph.D., *Research Associate in Pediatrics.*

FU-T'ANG CHU, M.D., *Research Fellow in Pediatrics.*

#### REQUIRED COURSES

*Second Year.* — Four lectures are given at the end of the second year to familiarize the student with the study of children's diseases before he comes into contact with patients. In this series are discussed the physiology of nutrition and the principles of infant feeding, the anatomical and physiological differences between children and adults, with a consideration of the normal growth and development of children.

*Third Year.* — 1. Six whole class exercises are given during the first

half-year, in which the more important aspects of the diseases of childhood are presented. Five whole class lectures, on special subjects, are assigned to pediatrics by the Department of Internal Medicine. Five whole class lectures in preventable diseases are conducted in collaboration with the Department of Preventive Medicine. Each section, during its assignment to the Children's Hospital for thirty-two days, receives correlated instruction in pediatrics, surgery, orthopaedic surgery, etc.

2. Section teaching: Two students are assigned to an instructor for eleven periods (three hours each); they are brought into intimate contact with patients in the out-patient department. Five conference hours are held for each section in which certain aspects of pediatrics are illustrated by didactic talks, by demonstration and by quizzes on assigned reading. Five clinics in correlation with orthopaedic and general surgery are held at which the students present cases for discussion before the entire section. Five afternoon exercises during each period are devoted to the study of communicable diseases. An elective course consisting of two clinics of two hours each is offered to the students of each section at the Haynes Memorial Hospital for Contagious Diseases.

*Fourth Year.*—The fourth year work consists of instruction at the Children's Hospital, the Infants' Hospital, and at the Children's Department of the Massachusetts General Hospital.

Students are divided into groups and assigned for one month to one of the hospitals. They act as clinical clerks.

One afternoon each week is spent in a Child Hygiene Station for instruction in infant feeding and preventive pediatrics. Instruction in the diseases of the newly born is given at the Boston Lying-in Hospital two afternoons a week to the students during their obstetrical service.

#### THIRD YEAR

HOURS

Clinical lectures. Dr. BLACKFAN and associates. C.H. <i>First half-year.</i>	6
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Section Teaching. C.H. and I.H. <i>Throughout the year.</i>	62
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#### FOURTH YEAR

Clinical clerkship. C.H., I.H., or M.G.H.	144
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Clinico-Pathological Conference. Drs. BLACKFAN and WOLBACH. C.H. <i>Wednesday, 12-1.</i> For third and fourth year students.	
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#### FOURTH YEAR ELECTIVE COURSES

3. Advanced Pediatrics. Whole courses, all day, C.H. and I.H.
4. Advanced Pediatrics. Whole courses, all day, M.G.H.
5. Advanced Pediatrics. Half-courses, mornings, C.H. and I.H.

## VOLUNTARY COURSE

30. Normal and Abnormal Metabolism of Water and Electrolytes. Drs. GAMBLE and BUTLER. Tuesdays, 4 to 5 P.M., March, C.H.

## ROENTGENOLOGY

Instruction will be given (a) to students during their section work in general medicine and surgery at the various hospitals; (b) to the class as a whole in the combined exercises of Medicine and Surgery when such instruction is indicated\* by the topic under discussion.

## Obstetrics

- FREDERICK C. IRVING, M.D., *Professor of Obstetrics.*  
 THOMAS R. GOETHALS, M.D., *Instructor in Obstetrics.*  
 DELOS J. BRISTOL, Jr., M.D., *Instructor in Obstetrics.*  
 ROBERT L. DENORMANDIE, M.D., *Instructor in Obstetrics.*  
 FOSTER S. KELLOGG, M.D., *Instructor in Obstetrics.*  
 JOHN B. SWIFT, Jr., M.D., *Instructor in Obstetrics.*  
 SAUL BERMAN, M.D., *Assistant in Obstetrics.*  
 JOHN A. COYNE, M.D., *Assistant in Obstetrics.*  
 MARION F. EADES, M.D., *Assistant in Obstetrics.*  
 PAUL GUSTAFSON, M.D., *Assistant in Obstetrics.*  
 MEINOLPH V. KAPPIUS, M.D., *Assistant in Obstetrics.*  
 H. BRISTOL NELSON, M.D., *Assistant in Obstetrics.*  
 JOHN ROCK, M.D., *Assistant in Obstetrics and in Gynaecology.*  
 JUDSON A. SMITH, M.D., *Assistant in Obstetrics.*  
 W. T. SHERMAN THORNDIKE, M.D., *Assistant in Obstetrics.*  
 WILLIAM B. YOUNG, M.D., *Assistant in Obstetrics.*  
 MANDEL E. COHEN, M.D., *Research Fellow in Obstetrics.*  
 LEROY GOODMAN, M.D., *Research Fellow in Obstetrics.*  
 DAVID HURWITZ, M.D., *Research Fellow in Obstetrics.*  
 DONALD MACOMBER, M.D., *Research Fellow in Obstetrics.*

## REQUIRED COURSES

*Third Year.*—Instruction is given by lectures, conferences, and clinical teaching. Students are required to take charge, before graduation, of at least twelve cases of labor, under supervision and instruction, to care for their patients during the convalescence, and to make full written reports of the cases.

*Fourth Year.*—The fourth year course will occupy the student's entire time for one month. It will be given at the Boston Lying-in Hospital and at the Medical School. During half of the course the student will lodge



at the hospital, and devote his time chiefly to attendance on cases in the out-patient clinic. In the course of his work he will be called on to assist at operations in the out-patient department, and will be expected, when his other duties permit, to make ward visits with the physician on duty in the house. In the other half of the course he will conduct the convalescence of the cases delivered by him during his resident service, and make daily ward visits at which clinical instruction will be given in the general management of normal and abnormal labor, in the study of the puerperal convalescence, and in the care of the young infant. Detailed written reports of the out-patient cases attended will be required. His clinical work will be done under the supervision of the department and of the hospital staff on duty, and he will receive careful instruction in the proper methods of delivery and the care of the convalescence. An opportunity will be given each student to study the care of pregnancy in the Pregnancy Clinic, where instruction in pelvimetry and in diagnosis of presentation and position by external examination will be given. Case teaching on five afternoons during the week will be an important feature of the course. A written report on one of the complications of pregnancy will be required of each student. The student will also be given at the Medical School a course of demonstrations in operative obstetrics during the first week of each course, and each student will have an opportunity to perform the different operations on the manikin.

## SECOND YEAR

HOURS

Lectures on Normal Obstetrics. Dr. KELLOGG. H.M.S. *Twice a week for six weeks.* 12

## THIRD YEAR

Lectures on Abnormal Obstetrics. Dr. IRVING and assistants.  
H.M.S. *On Friday or Saturday mornings for twenty-four weeks.* 24  
Practical instruction in Clinical Obstetrics. By members of the Department. *Throughout the year.* 104

## FOURTH YEAR

Practical instruction, in sections, in Clinical Obstetrics. *One month.* 144

## Preventive Medicine and Hygiene

MILTON J. ROSENAU, M.D., A.M., *Charles Wilder Professor of Preventive Medicine and Hygiene.*

W. LLOYD AYCOCK, M.D., *Assistant Professor of Preventive Medicine and Hygiene.*

LLOYD D. FELTON, M.D., S.D., *Assistant Professor of Preventive Medicine and Hygiene.*

BENJAMIN WHITE, Ph.D., *Assistant Professor of Preventive Medicine and Hygiene and of Bacteriology and Immunology.*



- JOSEPH W. SCHERESCHEWSKY, M.D., *Associate in Preventive Medicine and Hygiene.*
- WILLIAM A. HINTON, M.D., *Instructor in Preventive Medicine and Hygiene and in Bacteriology and Immunology.*
- ELLIOTT S. A. ROBINSON, M.D., Ph.D., *Instructor in Preventive Medicine and Hygiene and in Bacteriology and Immunology.*
- LA VERNE A. BARNES, Ph.D., *Assistant in Preventive Medicine and Hygiene.*
- CHAPMAN H. BINFORD, M.D., *Research Fellow in Preventive Medicine and Hygiene.*
- LLOYD C. FOGG, Ph.D., *Research Fellow in Preventive Medicine and Hygiene.*
- EGON LORENZ, Ph.D., *Research Fellow in Preventive Medicine and Hygiene.*
- MURRAY J. SHEAR, Ph.D., *Research Fellow in Preventive Medicine and Hygiene.*
- THOMAS N. WHITE, JR., Ph.D., *Research Fellow in Preventive Medicine and Hygiene.*

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#### REQUIRED COURSES

PREVENTIVE MEDICINE AND HYGIENE A. *Third Year.*—The course in Preventive Medicine and Hygiene consists of lectures and demonstrations, sanitary survey, and sanitary excursions. The lectures are followed by correlating clinical exercises. Each student is required to make a sanitary survey of a city or town and submit a report thereon. This report is due in the fourth year, not later than October first. The sanitary excursions consist of visits to a vaccine and antitoxin laboratory, to a dairy, etc.

THIRD YEAR	HOURS
Lectures and demonstrations. Dr. ROSENAU and Staff. <i>Once a week, throughout the year.</i>	32
Sanitary Survey.	36
Clinical exercises. <i>Once a week, throughout the year.</i>	56

#### FOURTH YEAR ELECTIVE COURSE

1. Special Course in Public Health. Dr. ROSENAU and Assistants. Whole course, all day, December.

#### VOLUNTARY COURSE

30. Applied Immunology (Serums and Vaccines). Drs. WHITE and ROBINSON. Tuesdays and Thursdays, 2 to 5 p.m., April. (See Bacteriology 33a.)

## Surgery

Under this Division are included Surgery and the specialties relating chiefly to Surgery : — Genito-Urinary Surgery, Gynaecology, Orthopaedic Surgery, Otology and Laryngology.

### SURGERY

(Including surgery, clinical surgery, operative surgery, surgical pathology, surgical technique, and surgical research.)

ELLIOTT C. CUTLER, M.D., *Moseley Professor of Surgery.*

EDWARD D. CHURCHILL, M.D., *John Homans Professor of Surgery.*

DAVID CHEEVER, M.D., *Associate Professor of Surgery.*

WILLIAM E. LADD, M.D., *Clinical Professor of Surgery.*

WILLIAM C. QUINBY, M.D., *Clinical Professor of Genito-Urinary Surgery.*

IRVING J. WALKER, M.D., *Clinical Professor of Surgery.*

J. DELLINGER BARNEY, M.D., *Assistant Professor of Genito-Urinary Surgery.*

ROBERT C. COCHRANE, M.D., *Assistant Professor of Surgery.*

JOHN HOMANS, M.D., *Assistant Professor of Surgery.*

GILBERT HORRAX, M.D., *Assistant Professor of Surgery.*

RICHARD H. MILLER, M.D., *Assistant Professor of Surgery.*

CHARLES G. MIXTER, M.D., *Assistant Professor of Surgery.*

AUGUSTUS RILEY, M.D., *Assistant Professor of Genito-Urinary Surgery.*

HILBERT F. DAY, M.D., *Instructor in Surgery.*

OTTO J. HERMANN, M.D., *Instructor in Surgery.*

GEORGE A. LELAND, Jr., M.D., *Instructor in Surgery.*

CHARLES C. LUND, M.D., *Instructor in Surgery.*

DONALD MUNRO, M.D., *Instructor in Surgery.*

FRANCIS C. NEWTON, M.D., *Instructor in Surgery.*

HARLAN F. NEWTON, M.D., *Instructor in Surgery.*

JAMES C. WHITE, M.D., *Tutor and Instructor in Surgery.*

CHANNING C. SIMMONS, M.D., *Associate in Surgery.*

ARTHUR W. ALLEN, M.D., *Instructor in Surgery.*

GEORGE D. CUTLER, M.D., *Instructor in Surgery.*

ERNEST M. DALAND, M.D., *Instructor in Surgery.*

JACOB FINE, M.D., *Instructor in Surgery.*

HARRY F. HARTWELL, M.D., *Instructor in Surgery.*

ROBERT R. LINTON, M.D., *Instructor in Surgery.*

LELAND S. MCKITTRICK, M.D., *Instructor in Surgery.*

JOE V. MEIGS, M.D., *Instructor in Surgery.*

STANLEY J. G. NOWAK, M.D., *Instructor in Surgery.*

A. WILLIAM REGGIO, M.D., *Instructor in Surgery.*

- THOMAS K. RICHARDS, M.D., *Instructor in Surgery.*  
ALPHA R. SAWYER, M.D. C.M., *Instructor in Genito-Urinary Surgery.*  
EDWARD L. YOUNG, Jr., M.D., *Instructor in Surgery.*  
ROBERT M. ZOLLINGER, M.D., *Instructor in Surgery.*  
ROBERT H. ALDRICH, M.D., *Assistant in Surgery.*  
GORDON D. ATKINSON, M.D., *Assistant in Genito-Urinary Surgery.*  
FRANKLIN G. BALCH, Jr., M.D., *Assistant in Surgery.*  
EDWARD B. BENEDICT, M.D., *Assistant in Surgery.*  
NEWTON C. BROWDER, M.D., *Assistant in Surgery.*  
FLETCHER H. COLBY, M.D., *Assistant in Genito-Urinary Surgery.*  
EDWARD A. COONEY, M.D., *Assistant in Surgery.*  
OLIVER COPE, M.D., *Assistant in Surgery.*  
ALLAN L. DAVIS, M.D., *Assistant in Surgery.*  
DANIEL J. DUGGAN, M.D., *Assistant in Surgery.*  
HERBERT G. DUNPHY, M.D., *Assistant in Surgery.*  
JOHN C. ECKELS, M.D., *Assistant in Genito-Urinary Surgery.*  
HENRY H. FAXON, M.D., *Assistant in Surgery.*  
TORR W. HARMER, M.D., *Assistant in Surgery and Instructor in Anatomy.*  
E. PARKER HAYDEN, M.D., *Assistant in Surgery.*  
HENRY W. HUDSON, Jr., M.D., *Assistant in Surgery.*  
FRANC D. INGRAHAM, M.D., *Assistant in Surgery.*  
CHARLES A. LAMB, M.D., *Assistant in Surgery.*  
THOMAS H. LANMAN, M.D., *Assistant in Surgery.*  
STEPHEN J. MADDOCK, M.D., *Assistant in Surgery.*  
PATRICK J. MAHONEY, M.D., *Assistant in Surgery.*  
GEORGE A. MARKS, M.D., *Assistant in Surgery.*  
PRODROMOS N. PAPAS, M.D., *Assistant in Genito-Urinary Surgery.*  
C. LANGDON PARSONS, M.D., *Assistant in Surgery.*  
THOMAS H. PETERSON, M.D., *Assistant in Surgery.*  
LYMAN G. RICHARDS, M.D., *Assistant in Surgery.*  
HORATIO ROGERS, M.D., *Assistant in Surgery.*  
RICHARD I. SMITH, M.D., *Assistant in Surgery.*  
REGINALD H. SMITHWICK, M.D., *Assistant in Surgery.*  
GRANTLEY W. TAYLOR, M.D., *Assistant in Surgery.*  
AUGUSTUS THORNDIKE, Jr., M.D., *Assistant in Surgery.*  
RICHARD H. WALLACE, M.D., *Assistant in Surgery.*  
WILLIAM A. WHITE, Jr., M.D., *Assistant in Surgery.*  
CORNELIUS B. WOOD, M.D., *Arthur Tracy Cabot Fellow in Surgery.*  
WILLIAM V. COX, M.D., *Austin Teaching Fellow in Surgery.*  
HOWARD H. BRADSHAW, M.D., *Research Fellow in Surgery.*  
W. FENN HOYT, M.D., *Research Fellow in Surgery.*  
HAROLD F. ROBERTSON, M.B., *Research Fellow in Surgery.*



## REQUIRED COURSES

Instruction will be given by amphitheatre clinics, lectures, and conferences, together with section teaching in the wards and out-patient departments of the hospitals and in the laboratory of surgical research. Elective and voluntary courses will be given in the laboratories of the Harvard Medical School and in the wards and operating rooms of the hospitals.

*Second Year.* — The course, which is designed to prepare the student for his hospital contact with patients, will begin in February of the second year. Instruction will be given by clinical lectures and section work in the various hospitals and in the surgical laboratory. The course will cover the general principles of surgical treatment: surgical technique, the use of apparatus and instruments, and an introduction to clinical surgery, beginning with inflammation, trauma, etc.

*Third Year.* — The course is conducted largely in the out-patient departments of the hospitals affiliated with the School. Owing to a new arrangement, the students are to be divided into three main groups, each group in rotation being apportioned to one of the three major hospitals affiliated with the School for instruction in Surgery over a sixty-four day period. During this period they will have their general surgery, urology, and roentgenology at the hospital to which they are assigned, and will also receive instruction in gynaecology at the Free Hospital for Women and in laryngology at the Massachusetts Eye and Ear Infirmary.

*Fourth Year.* — A service of not less than three months as clinical clerk in the surgical wards of the M.G.H., B.C.H., or P.B.B.H., is required of each student, except for those who take at least three months in Medicine, in which case two months of surgery are required.

## SECOND YEAR

HOURS

Clinical lectures and Exercises. Dr. MILLER and associates. M.G.H. and B.C.H. <i>Second half-year.</i>	29
Section work. Drs. LUND and BALCH. Laboratory of Surgical Research, H.M.S. <i>Each student has nine exercises.</i>	38

## THIRD YEAR

Amphitheatre lectures. Drs. CUTLER, WALKER, CHURCHILL, and associates. P.B.B.H. <i>Once a week throughout the year.</i>	32
Exercises in sections in the wards and out-patient departments at the M.G.H., B.C.H., and P.B.B.H. <i>Each section has thirty-two exercises of two and a half hours each and twenty-one exercises of three hours each.</i>	143
Genito-urinary Surgery. Lectures. <i>Second half-year.</i>	6



Section work. M.G.H., B.C.H., and P.B.B.H. *Each student has ten or eleven two-and-a-half-hour exercises.*

27

## FOURTH YEAR

Clinical clerkship at M.G.H. (Surgery 1, Dr. CHURCHILL and associates), B.C.H. (Surgery 2, Dr. WALKER and associates), P.B.B.H. (Surgery 3, Dr. CUTLER and associates), or B.I.H. (Surgery 4, Dr. MIXTER and associates, *second half-year only.*)

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## FOURTH YEAR ELECTIVE COURSES

5. Children's Surgery. Dr. LADD and Staff. C.H. All day, throughout the year. A limited number of students will be accepted.
6. Genito-Urinary Surgery. Dr. RILEY, B.C.H. Half-course, mornings; or, with the permission of the instructor, whole course, all day.
7. Genito-Urinary Surgery. Dr. BARNEY. M.G.H. Half-course, mornings; or, with permission of the instructor, whole course, all day.
8. Genito-Urinary Surgery. Dr. QUINBY. P.B.B.H. Whole course, all day. Limited to two men each month.
20. Research. H.M.S. Whole course, all day.

## VOLUNTARY COURSE

30. Pathological Physiology of Surgical Diseases. Dr. FINE. B.I.H. Tuesdays, 2-3.30 P.M. February and March. Open to third year men.

## GYNAECOLOGY

- FRANK A. PEMBERTON, M.D., *Clinical Professor of Gynaecology.*  
 ROBERT M. GREEN, M.D., *Instructor in Gynaecology and Assistant Professor of Applied Anatomy.*  
 FREDERICK L. GOOD, M.D., *Instructor in Gynaecology.*  
 RICHARD G. WADSWORTH, M.D., *Instructor in Gynaecology.*  
 JOHN T. WILLIAMS, M.D., *Instructor in Gynaecology.*  
 CARM R. ALDEN, M.D., *Assistant in Gynaecology.*  
 JOSEPH P. COHEN, M.D., *Assistant in Gynaecology.*  
 HAROLD V. HYDE, M.D., *Assistant in Gynaecology.*  
 FREDERICK J. LYNCH, M.D., *Assistant in Gynaecology.*  
 REGINALD D. MARGESON, M.D., *Assistant in Gynaecology and in Anatomy.*  
 G. ELLIOTT MAY, M.D., *Assistant in Gynaecology.*  
 JOHN ROCK, M.D., *Assistant in Gynaecology and in Obstetrics.*  
 EDWARD B. SHEEHAN, M.D., *Assistant in Gynaecology.*  
 GEORGE VAN S. SMITH, M.D., *Research Fellow in Gynaecology.*

## REQUIRED COURSES

*Third Year.* — Instruction is given by lectures and clinical teaching in the third year. Clinics are held in the wards and out-patient departments of the Free Hospital for Women and the Boston City Hospital. The student is instructed in the examination and diagnosis of gynaecological disease, and in the technic of gynaecological operations.

## THIRD YEAR

HOURS

Lectures. Dr. PEMBERTON. H.M.S. *Last six Tuesdays, first half-year.*

6

Clinical exercises. Drs. PEMBERTON, WADSWORTH, SHEEHAN, and ROCK F.H.W., and Drs. GREEN, COHEN, GOOD, HYDE, WILLIAMS, and MARGESON B.C.H.. *In sections, throughout the year. Each student attends ten or eleven exercises.*

27

## FOURTH YEAR ELECTIVE COURSE

1. Clinical Course. Dr. PEMBERTON, assisted by Drs. WADSWORTH, SHEEHAN, ROCK, and SMITH. F.H.W. Whole courses or half-courses, mornings, offered throughout the year.

## ORTHOPAEDIC SURGERY

FRANK R. OBER, M.D., *Clinical Professor of Orthopaedic Surgery.*

ARTHUR T. LEGG, M.D., *Assistant Professor of Orthopaedic Surgery.*

JAMES W. SEVER, M.D., *Assistant Professor of Orthopaedic Surgery.*

MARIUS N. SMITH-PETERSEN, M.D., *Assistant Professor of Orthopaedic Surgery.*

PHILIP D. WILSON, M.D., *Instructor in Orthopaedic Surgery.*

ALBERT H. BREWSTER, M.D., *Instructor in Orthopaedic Surgery.*

LLOYD T. BROWN, M.D., *Instructor in Orthopaedic Surgery.*

G. KENNETH COONSE, M.D., *Instructor in Orthopaedic Surgery.*

HENRY J. FITZSIMMONS, M.D., *Instructor in Orthopaedic Surgery.*

ROBERT SOUTTER, M.D., *Instructor in Orthopaedic Surgery.*

LORING T. SWAIM, M.D., *Instructor in Orthopaedic Surgery.*

GEORGE W. VAN GORDER, M.D., *Instructor in Orthopaedic Surgery.*

JOSEPH S. BARR, M.D., *Assistant in Orthopaedic Surgery.*

EDWIN F. CAVE, M.D., *Assistant in Orthopaedic Surgery.*

WILLIAM T. GREEN, M.D., *Assistant in Orthopaedic Surgery.*

JOHN G. KUHN, M.D., *Assistant in Orthopaedic Surgery.*

ROBERT H. MORRIS, M.D., *Assistant in Orthopaedic Surgery.*

SUMNER M. ROBERTS, M.D., *Assistant in Orthopaedic Surgery.*

WILLIAM A. ROGERS, M.D., *Assistant in Orthopaedic Surgery.*

JAMES G. SHANNON, M.D., *Assistant in Orthopaedic Surgery.*

## REQUIRED COURSES

*Third Year.* — Instruction is given in Orthopaedic Surgery by lectures at the Children's Hospital in the second half of the third year, and throughout the third year by clinical exercises at the Children's Hospital, Massachusetts General Hospital, Peter Bent Brigham Hospital and Boston City Hospital.

THIRD YEAR	HOURS
Lectures. Dr. OBER. C.H. <i>First half-year.</i>	8
Clinical exercises. Dr. OBER and associates. C.H., M.G.H., P.B.B.H., and B.C.H. <i>In sections throughout the year.</i>	30

The students are assigned to the Children's Hospital for thirty-two days to receive correlated clinical instruction in the diseases and disabilities of children. The clinical exercises in Orthopaedic Surgery will be given during this period.

The clinical exercises in Orthopaedic Surgery and Industrial Surgery of adults will be correlated with clinical exercises in General Surgery at the Massachusetts General, the Peter Bent Brigham and the Boston City Hospitals during the three months that each student is assigned to one of these hospitals for his clinical instruction in General Surgery.

## FOURTH YEAR ELECTIVE COURSES

1. Special Course. Half-course, afternoons, December. Given for not less than ten students.
2. Clinical Course. Whole course, all day, or half-courses, mornings, offered throughout the school year. M.G.H. and C.H.
3. Clinical Course. Half-course, mornings, offered throughout the school year. Out-patient Department, C.H.
4. Clinical Course. Half-course, mornings, offered throughout the school year. Out-patient Department, M.G.H.
5. Clinical Clerkship. Dr. OBER and Staff. C.H. Half-course, afternoons, offered throughout the year.

## Otology and Laryngology

## OTOLOGY

- HARRIS P. MOSHER, M.D., S.D., *Walter Augustus Lecompte Professor of Otology and Professor of Laryngology.*
- CALVIN B. FAUNCE, JR., M.D., *Assistant Professor of Otology.*
- HARRY P. CAHILL, M.D., *Instructor in Otology.*
- FREDERICK L. BOGAN, M.D., *Instructor in Otology.*
- PHILIP E. MELTZER, M.D., *Instructor in Otology.*
- CHARLES T. PORTER, M.D., *Instructor in Otology.*
- MOSES H. LURIE, M.D., *Assistant in Otology.*
- FRANCIS L. WEILLE, M.D., *Assistant in Otology and in Laryngology.*
- LEON E. WHITE, M.D., *Assistant in Otology.*



*Third Year.*—Instruction is given by lectures at the Harvard Medical School and clinical instruction in the third year in sections, each student receiving instruction every morning for two weeks at the Massachusetts Eye and Ear Infirmary with anatomical and histological demonstrations at the Harvard Medical School.

THIRD YEAR			HOURS
Clinical exercises in Otology.	Dr. MOSHER and Staff.	M.E. and E.I.	27
<i>Every student has eight exercises.</i>			
Lectures in Otology.	H.M.S.	<i>Once a week. September–October.</i>	5

#### FOURTH YEAR ELECTIVE COURSES

1. Clinical Otology. Quarter-course, mornings, offered throughout the year.
2. Advanced Otology. Half-course, mornings, October to January.

#### LARYNGOLOGY

HARRIS P. MOSHER, M.D., S.D., *Walter Augustus Lecompte Professor of Otology and Professor of Laryngology.*

HARRY A. BARNES, M.D., *Instructor in Laryngology.*

FREDERICK E. GARLAND, M.D., *Instructor in Laryngology.*

EDWARDS W. HERMAN, M.D., *Instructor in Laryngology.*

CHARLES D. KNOWLTON, M.D., *Instructor in Laryngology.*

D. CAMPBELL SMYTH, M.D., *Instructor in Laryngology.*

HAROLD G. TOBEY, M.D., *Instructor in Laryngology.*

WILLIAM I. WIGGIN, M.D., *Instructor in Laryngology.*

GEORGE H. WRIGHT, D.M.D., *Instructor in Laryngology.*

MAURICE G. EVANS, M.D., *Assistant in Laryngology.*

ROBERT L. GOODALE, M.D., *Assistant in Laryngology.*

CHARLES I. JOHNSON, M.D., *Assistant in Laryngology.*

FRANCIS L. WEILLE, M.D., *Assistant in Laryngology and in Otology.*

#### REQUIRED COURSES

*Third Year.*—Instruction consists of lectures and section work in the third year, each section being assigned to the throat clinic of the Massachusetts General Hospital. In addition to clinical instruction, special demonstrations in anatomy will be given.

THIRD YEAR			HOURS
Clinical exercises in Laryngology.	Staff.	<i>Ten or eleven exercises for each student.</i>	27
Laryngology Lectures.	Dr. MOSHER and assistants.	H.M.S.	
			6



## FOURTH YEAR ELECTIVE COURSE

1. Clinical Laryngology. Half-course or quarter-course, mornings, offered throughout the year. M.G.H.

## Tropical Medicine

- RICHARD P. STRONG, M.D., S.D., *Professor of Tropical Medicine.*  
 A. WATSON SELLARDS, M.D., *Associate Professor of Tropical Medicine.*  
 JOSEPH C. BEQUAERT, PH.D., *Assistant Professor of Entomology.*  
 LEMUEL R. CLEVELAND, S.D., *Assistant Professor of Protozoölogy.*  
 JACK H. SANDGROUND, S.D., *Assistant Professor of Tropical Helminthology.*  
 GEORGE C. SHATTUCK, M.D., A.M., *Assistant Professor of Tropical Medicine.*  
 CARLOS CHAGAS, A.M., *Lecturer on Tropical Medicine.*  
 ROLAND C. CONNOR, M.D., *Lecturer on Tropical Medicine.*  
 A. HAMILTON RICE, M.D., A.M., *Professor of Geographical Exploration and Lecturer on Diseases of South America.*  
 ALBERT A. HORNOR, M.D., *Assistant in Tropical Medicine.*  
 MAURICE B. STRAUSS, M.D., *Assistant in Tropical Medicine and in Medicine.*
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## FOURTH YEAR ELECTIVE COURSES

The following courses in Medical Zoölogy and Tropical Medicine are given in the Departments of Comparative Pathology and Tropical Medicine. Students coming from tropical or subtropical countries, or those who intend to practise in such countries, are especially urged to elect these courses. Further details concerning the same may be obtained from Dr. R. P. STRONG, Room 245, Building D, or from Dr. E. E. TYZZER, Room 229, Building E.

1. Protozoölogy. Drs. TYZZER, CLEVELAND, and THEILER. Half-course, afternoons. March.
2. HELMINTHOLOGY. Drs. AUGUSTINE and SANDGROUND. Half-course, afternoons. April.
3. MEDICAL ENTOMOLOGY. Drs. BEQUAERT and HERTIG. Half-course, afternoons. February.
4. INFECTIOUS DISEASES. Drs. STRONG, SELLARDS, and SHATTUCK. Half-course, afternoons. May.
5. TROPICAL MEDICINE. Dr. G. C. SHATTUCK. B.C.H. Time to be arranged with the instructor.

See also Comparative Pathology, p. 49.

## SPECIAL VOLUNTARY COURSES

Clinical Pathological Conferences. Drs. CABOT, WOLBACH, and T. B. MALLORY. Tuesdays, 3.30 P.M., October through May. M.G.H. and P.B.B.H., alternately.

Heredity in Relation to Medicine. Dr. KEELER. Thursdays, 2-3 P.M., February through May. H.M.S.

Research Course in Heredity. Dr. KEELER. Time individually arranged for. H.M.S.

## Physical Education

The instructor in Physical Education plans the work in order to benefit the health of the medical student and also to give him an opportunity of realizing the importance of systematic exercise in the maintenance of health. To this end close coöperation is maintained with those in charge of the physical examination and the health of the students. A student may elect the type of exercise best suited to his particular needs as advised at the time of his physical examination. HERBERT WALKER, Ed.M., *Instructor in Physical Education*.

**FIRST YEAR — First Half-Year**  
**SEPT. 26, 1932 — JAN. 28, 1933 (All dates inclusive)**

HOURL	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9-12	Anatomy	Histology	Anatomy	Histology	Histology	
2-4.30	Anatomy	Histology	Anatomy	Histology	Anatomy	

**FIRST YEAR — Second Half-Year**  
**JAN. 30 — MAY 27, 1933 (All dates inclusive)**

9-12.30	Physiology	Biological Chemistry Lecture at 9	Physiology	Biological Chemistry Lecture at 9	Physiology	Biological Chemistry Lecture at 9
2-4	Physiology				Physiology	
4-5	March 6-May 15 (10 weeks) Medical Psychology	Biological Chemistry			Biological Chemistry Personal conferences	

Vacations: Dec. 23-Jan. 2; April 2-9.

Holidays: Oct. 12; Nov. 11; Nov. 24; Feb. 22; April 19.

## SECOND YEAR—First Half-Year

SEPT. 26, 1932—JAN. 28, 1933 (*All dates inclusive*)

HOURL	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 10		Pharmacology		Pharmacology		Pharmacology
10-11	Pathology	Pharmacology ( $\frac{1}{3}$ Class) Sept. 27-Dec. 22 Parasitology Jan. 3-28	Pathology	Pharmacology ( $\frac{1}{3}$ Class) Sept. 27-Dec. 22 Parasitology Jan. 3-28	Pathology	Pharmacology ( $\frac{1}{3}$ Class) Sept. 27-Dec. 22 Parasitology Jan. 3-28
11-12.30						
2 5	Bacteriology		Bacteriology		Bacteriology	

Vacations: Dec. 23—Jan. 2.

Holidays: Oct. 12; Nov. 11; Nov. 24.



## SECOND YEAR — Second Half-Year

JAN. 30—MAY 27, 1933 (*All dates inclusive*)

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
A.M.						
9-10	Pathology <i>Jan. 30-Mar. 25</i> (5 weeks) Neuropathology <i>Mar. 27-May 6</i> (5 weeks)	Medicine	Pathology <i>Jan. 30-Mar. 25</i> (8 weeks) Neuropathology <i>Mar. 27-May 6</i> (5 weeks)	Surgery	Pathology <i>Jan. 30-Mar. 25</i> (8 weeks) Neuropathology <i>Mar. 27-May 6</i> (5 weeks)	Medicine
10-10.30		Div. A: Medicine section work Div. B: Surgery { Divisions alternate weekly }		Div. B: Medicine section work Div. A: Surgery { Divisions alternate weekly }		Div. A: Medicine section work Div. B: Surgery { Divisions alternate weekly }
10.30-12			Medicine		Medicine	
12-1	Medicine	Surgery	Medicine	Surgery	Medicine	Medicine
9-10	Surgery		Medicine		Medicine	
10-10.30						
10.30-1	Medicine Div. A: Clinic Div. B: Section Work	Medicine Div. B: Clinic Div. A: Section Work	Medicine Div. A: Clinic Div. B: Section Work	Medicine Div. B: Clinic Div. A: Section Work	Medicine Div. A: Clinic Div. B: Section Work	Medicine Div. B: Clinic Div. A: Section Work
P.M.						
2-3	Pharmacology		Pharmacology		Pharmacology	
3-5	Clin. Pathology		Clin. Pathology		Clin. Pathology	
2-4	Clin. Pathology		Clin. Pathology		Clin. Pathology	
4-5	Obstetrics		Obstetrics		Obstetrics	

Holidays: Feb. 22; April 19. Vacation: April 2-9.

## THIRD YEAR SCHEDULE

SEPT. 26, 1932 — MAY 27, 1933 (All dates inclusive)

Hour	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8.30-9.30	Lecture	Lecture	Lecture	Lecture	Lecture	Lecture
10-12.30	$\frac{1}{2}$ of Class: i. Medicine ii. Med. Spec.* $\frac{1}{2}$ of Class: i. Surgery ii. Surg. Spec.† $\frac{1}{2}$ of Class: A { Pediatrics { Orthopaedic Surgery B { Obstetrics§ { Otolaryngology† { Ophthalmology†	$\frac{1}{2}$ of Class: i. Med. Spec.* ii. Medicine $\frac{1}{2}$ of Class: i. Surg. Spec.† ii. Surg. Spec.† $\frac{1}{2}$ of Class: A { Pediatrics { Orthopaedic Surgery B { Obstetrics§ { Otolaryngology† { Ophthalmology†	$\frac{1}{2}$ of Class: i. Medicine ii. Med. Spec.* $\frac{1}{2}$ of Class: i. Surgery ii. Surg. Spec.† $\frac{1}{2}$ of Class: A { Pediatrics { Orthopaedic Surgery B { Obstetrics§ { Otolaryngology† { Ophthalmology†	$\frac{1}{2}$ of Class: i. Med. Spec.* ii. Medicine $\frac{1}{2}$ of Class: i. Surg. Spec.† ii. Surg. Spec.† $\frac{1}{2}$ of Class: A { Pediatrics { Orthopaedic Surgery B { Obstetrics§ { Otolaryngology† { Ophthalmology†	$\frac{1}{2}$ of Class: i. Medicine ii. Med. Spec.* $\frac{1}{2}$ of Class: i. Surgery ii. Surg. Spec.† $\frac{1}{2}$ of Class: A { Pediatrics { Orthopaedic Surgery B { Obstetrics§ { Otolaryngology† { Ophthalmology†	$\frac{1}{2}$ of Class: i. Med. Spec.* ii. Medicine $\frac{1}{2}$ of Class: i. Surg. Spec.† ii. Surg. Spec.† $\frac{1}{2}$ of Class: A { Pediatrics { Orthopaedic Surgery B { Obstetrics§ { Otolaryngology† { Ophthalmology†
2-5	$\frac{1}{2}$ of Class: Medicine $\frac{1}{2}$ of Class: Surgery { Pediatrics { Orthopaedic Surgery	FREE	$\frac{1}{2}$ of Class: Medicine $\frac{1}{2}$ of Class: Surgery { Pediatrics { Orthopaedic Surgery	FREE	Lecture Preventive Medicine Bldg. E. Amph. 2-3 Clinical Conference 3-5 Six Lectures Legal Medicine Bldg. D. Amph. 4:15-5	FREE

\* Med. Spec. = Neurology, Psychiatry, Dermatology and Syphilology. † Surg. Spec. = Genito-Urinary Surgery, Gynaecology, Laryngology.

† There are no afternoon classes on Mondays and Wednesdays for students taking Ophthalmology and Otolaryngology.

§ For this course the students are assigned to one of the districts of the B. L. I. and are on duty twenty-four hours a day for a period of ten or eleven days.

The Thirds interchange every 64 days.

The Class is divided into thirds and the Medical and Surgical thirds are made up of two groups:

I. — Having Medicine (or Surgery) on Mondays, Wednesdays and Fridays and the Medical (or Surgical) specialties on Tuesdays, Thursdays and Saturdays.

II. — Having Medicine (or Surgery) on Tuesdays, Thursdays and Saturdays and the Medical (or Surgical) specialties on Mondays, Wednesdays and Fridays.

The Third having Pediatrics, etc., is made up of divisions A and B. These divisions interchange every 32 days.

# FOURTH YEAR PROGRAMME

(Each block represents one month. Order of subjects variable.)

	1	2	3	4
MORNING	Medicine C1, C2, C3, or C4 †	Medicine C1, C2, C3, or C4 †	Medicine C1, C2, C3, or C4 † or Surgery C1, C2, C3, or C4*	Surgery C1, C2, C3, or C4*
AFTERNOON				
	5	6	7	8
MORNING	Surgery C1, C2, C3, or C4 *	Obstetrics C1	Pediatrics C1 or C2	Elective
AFTERNOON				

† First half year only.

\* Second half year only.

A student may gain time for additional elective courses by anticipating quired courses of the fourth year during the vacation period between e third and fourth years. In very exceptional cases a student will be rmitted to substitute elective for required courses without anticipating e required work during the summer.

## FOURTH YEAR PROGRAMME

(Each block represents one month. Order of subjects variable.)

	1	2	3	4
MORNING			Medicine C1, C2, C3, or C4†	
AFTERNOON	Medicine C1, C2, C3, or C4†	Medicine C1, C2, C3, or C4†	or Surgery C1, C2, C3, or C4*	Surgery C1, C2, C3, or C4*
	5	6	7	8
MORNING				
AFTERNOON	Surgery C1, C2, C3, or C4*	Obstetrics C1	Pediatrics C1 or C2	Elective

† First half year only.

\* Second half year only.

A student may gain time for additional elective courses by anticipating required courses of the fourth year during the vacation period between the third and fourth years. In very exceptional cases a student will be permitted to substitute elective for required courses without anticipating the required work during the summer.



## DEGREES

ON JUNE 23, 1932, THE FOLLOWING DEGREES WERE CONFERRED:

## M.D.

- John Cole Angley, S.B. (*Bowdoin Coll.*) 1928.  
 Richard Hatsuhiko Arimizu, A.B. (*Oberlin Coll.*) 1928.  
 James Albert Atkins, A.B. (*Univ. of Missouri*) 1928, A.M. and S.B. (*ibid.*) 1930.  
 Matthew John Bachulus, S.B. (*Bowdoin Coll.*) 1928.  
 George Stanley Baker, A.B. (*Columbia Univ.*) 1928.  
 Nathaniel Everett Beaver, A.B. (*Willamette Univ.*) 1927.  
 James Samuel Binkley, S.B. (*Univ. of Oklahoma*) 1929, A.B. (*ibid.*) 1930.  
 James Loudon Borland, S.B. (*Univ. of Florida*) 1928.  
 Leonard William Brewer.  
 George Gowing Broad, A.B. (*Amherst Coll.*) 1928.  
 Edward Budnitz, S.B. (*Yale Univ.*) 1928.  
 Edward William Bulley.  
 Rex Smith Campbell.  
 Simeon Theodore Cantril, A.B. (*Dartmouth Coll.*) 1929.  
 John Winslow Chamberlain, S.B. (*Mass. Institute of Technology*) 1928.  
 Alan Raymond Chambers, A.B. (*Univ. of Illinois*) 1928.  
 Theodore Dodge Clark, A.B. (*Bowdoin Coll.*) 1926.  
 David Glendenning Cogan, A.B. (*Dartmouth Coll.*) 1929.  
 Herbert Isaac Coombs, S.B. (*Univ. of Oxford, England*) 1924, A.B. (*ibid.*) 1925, A.M. (*ibid.*) 1927, PH.D. (*Cambridge Univ., England*) 1928.  
 Benjamin Fuller Cornwall, A.B. (*Yale Univ.*) 1928.  
 Carl Cutting Corson, A.B. 1928.  
 Frank Bryant Cutts, A.B. 1928.  
 Frank Wilton Dean, A.B. (*DePauw Univ.*) 1928.  
 Harry Fredric Dietrich.  
 Joseph Bernard Doyle, A.B. (*Boston Coll.*) 1928.  
 Samuel Milton Dupertuis, S.B. 1928.  
 John Burton Dynes, A.B. (*Univ. of Wisconsin*) 1926, A.M. (*ibid.*) 1930.  
 Donald Henderson Eckles, A.B. (*Amherst Coll.*) 1928.  
 Marcus Emmett Farrell, S.B. (*Univ. of Notre Dame*) 1928.  
 Robert Fienberg, A.B. 1928.  
 Herbert George Finn, A.B. 1928.  
 John Edward Franklin, S.B. (*Univ. of Notre Dame*) 1928.  
 Libertad Roberts Gaetán, S.B. 1928.  
 Robert Lemley Garrard, A.B. and S.M. (*Univ. of Alabama*) 1928, S.B. in Medicine (*ibid.*) 1930.  
 Eugene Alexander Gaston, Jr.  
 John Graham Gibson, A.B. (*Amherst Coll.*) 1919, M.B.A. (*Harvard Univ.*) 1921.  
 Seebert Jay Goldowsky, A.B. (*Brown Univ.*) 1928.  
 Edgar Stillwell Gordon, A.B. (*Univ. of Wisconsin*) 1927, A.M. (*ibid.*) 1929.  
 Charles Pattison Graham, S.B. (*Univ. of North Carolina*) 1930.  
 John Hempstead Gratiot, A.B. (*Stanford Univ.*) 1930.  
 William Frederick Green, S.B. 1928.  
 Ward Irving Gregg, S.B. 1928.  
 Travis Shaw Griffith, A.B. (*Southwestern Univ.*) 1928.  
 John Church Ham, A.B. (*Princeton Univ.*) 1928.  
 Joseph Earle Hamilton, A.B. (*Coll. of Wooster*) 1928.

- Francis Joseph Hanley, Jr., A.B. (*Amherst Coll.*) 1928.  
 Theodore Everett Hardy, Jr., S.B. (*Colby Coll.*) 1928.  
 Carl Hermann Hartwig, A.B. 1928.  
 George Eugene Heels, A.B. (*Albion Coll.*) 1928.  
 Wright Platt Hewitt, A.B. 1928.  
 Ludwig Clovis Bernhardt Hirning, A.B. (*Columbia Univ.*) 1928.  
 Joseph Raymond Hobbs, S.B. (*Mass. Institute of Technology*) 1925, S.B. (*Johns Hopkins Univ.*) 1928.  
 Arthur Andrews Holbrook, A.B. 1928.  
 William Leland Holt, Jr., A.B. (*Antioch Coll.*) 1928.  
 William Hall Holtham, A.B. (*Amherst Coll.*) 1928.  
 John Renton Hopkins, A.B. (*Brown Univ.*) 1928.  
 John Denison Houghton, A.B. 1927.  
 Willis Fulton Hume, A.B. (*Oberlin Coll.*) 1928.  
 Frederic William Ilfeld, A.B. 1928.  
 Robert Rehr Impink, A.B. 1928.  
 Samuel Rodman Irvine.  
 Ebenezer Kelley Jenkins, S.B. (*Tufts Coll.*) 1928.  
 Robert Emmett Jennings.  
 Raymond Edwin Johnson, A.B. 1927.  
 Walter Smalley Jones, PH.B. (*Brown Univ.*) 1926.  
 Samuel Karlin, A.B. 1928.  
 Claude Klapper, S.B. 1928.  
 John Ellis Knight, A.B. (*Dartmouth Coll.*) 1929.  
 Lee Hugo Koehler, A.B. (*Univ. of Wisconsin*) 1928.  
 George Douglas Krumbhaar, A.B. 1926.  
 Carl Albert Kunath, A.B. (*Grinnell Coll.*) 1928.  
 Harold Francis Laroe, A.B. (*Brown Univ.*) 1928.  
 Claude Merrill Leister, A.B. (*Lehigh Univ.*) 1928.  
 Harold David Levine, S.B. 1929.  
 David Frank Loewen, A.B. (*Carleton Coll.*) 1926.  
 Harry Bertram Luke, A.B. (*Hamilton Coll.*) 1928.  
 Robert Alvan MacCready, S.B. (*Dartmouth Coll.*) 1925.  
 James Scott Mansfield, A.B. (*Cornell Univ.*) 1928.  
 George Hayes Marcy, A.B. (*Yale Univ.*) 1928.  
 Antonio Andrew Matarese, S.B. (*Rhode Island State Coll.*) 1928.  
 Scott Scowcroft McCune, S.B. (*Univ. of Utah*) 1929.  
 Neil Thomas McDermott, A.B. (*Catholic Univ. of America*) 1927.  
 Daniel Malcolm McMartin, A.B. (*Hamilton Coll.*) 1927.  
 Gordon Henry McSwain, S.B. (*Davidson Coll.*) 1928.  
 Eugene James Morrissey, S.B. (*Bucknell Univ.*) 1928.  
 Arthur Carpenter Murray, A.B. 1928.  
 Michael Earley Murray, Jr., A.B. (*Univ. of Notre Dame*) 1926.  
 James Roan Nealon, S.B. (*Villanova Coll.*) 1928.  
 Henry Joseph Oberson, A.B. (*Willamette Univ.*) 1928.  
 Jesse Silsby Parker, A.B. (*Park Coll.*) 1925.  
 Norbert Thomas Pasternacki, A.B. 1928.  
 Robert Lee Patterson, Jr., A.B. (*Univ. of Georgia*) 1928.  
 Francis Henry Reynolds, A.B. (*Dartmouth Coll.*) 1928.  
 Edwin Date Richards, A.B. (*Yale Univ.*) 1928.  
 Augustus Steele Rose, S.B. (*Univ. of North Carolina*) 1930.  
 Henry Ross, (*U. S. Military Academy*) 1926, A.B. (*Univ. of Rochester*) 1928.  
 Robert Sanderson, A.B. (*Yale Univ.*) 1926.  
 Americo Savastano, S.B. (*Rhode Island State Coll.*) 1928.

James Elliott Scarborough, Jr., A.B. (*Univ. of Alabama*) 1926.  
 Charles Victor Seastone, Jr., A.B. (*Univ. of Wisconsin*) 1927.  
 Emmett Bird Settle, A.B. (*Univ. of Nebraska*) 1927.  
 Thomas Leffingwell Shipman, PH.B. (*Yale Univ.*) 1928.  
 Joseph Russell Smith, S.B. (*Utah Agricultural Coll.*) 1927.  
 Wesley William Spink, A.B. (*Carleton Coll.*) 1926.  
 Francis Joseph Steele, A.B. (*Coll. of the Holy Cross*) 1928.  
 James Hervi Sterner, S.B. (*Pennsylvania State Coll.*) 1928.  
 William Crawford Stewart, S.B. (*Univ. of Virginia*) 1928.  
 James Stillman, S.B. (*Princeton Univ.*) 1927.  
 Edward Keown Stimpson, A.B. (*Stanford Univ.*) 1927.  
 Jackson Weaver Thro, A.B. (*Colgate Univ.*) 1928.  
 Leslie Howard Van Raalte, A.B. 1928.  
 Charles Edward Walker, Jr., A.B. (*Centre Coll.*) 1928.  
 Carl Waldemar Walter, A.B. 1928.  
 Charles Arthur Waltman, S.B. (*Lafayette Coll.*) 1928.  
 Franklin Stafford Wearn, S.B. (*Davidson Coll.*) 1928.  
 Robert Francis Welch, A.B. (*Boston Coll.*) 1927.  
 Roger Sherman Whitney, A.B. (*Yale Univ.*) 1928.  
 Arthur Amos Yengling, S.B. (*Mt. Union Coll.*) 1928.

#### M.D. cum Laude

John Vernon Cantlon, S.B. (*Univ. of Nevada*) 1928.  
 Benjamin Watson Carey, Jr., S.B. (*Univ. of Illinois*) 1928.  
 Reams Andrew Domser, A.B. (*Hamilton Coll.*) 1928.  
 Alfred Leslie Duncombe, S.B. (*Rutgers Univ.*) 1928.  
 Joseph Goodman, Jr., S.B. 1926.  
 Paul Richard Hinchey, A.B. (*Boston Coll.*) 1928.  
 Edward Cornelius Humphrey, A.B. (*Yale Univ.*) 1927.  
 Harry Knowles Messenger, A.B. (*Williams Coll.*) 1911, A.M. (*Harvard Univ.*) 1920, PH.D. (*ibid.*) 1925.  
 Frederick James Cunningham Smith, A.B. (*Univ. of Kansas*) 1928.  
 Ralph Fosdick Spencer, A.B. (*Colgate Univ.*) 1928.  
 Alden Wood Squires, A.B. (*Univ. of North Dakota*) 1927, S.B. (*ibid.*) 1930.  
 George Franklin Wilkins, A.B. (*Coll. of the Holy Cross*) 1928.  
 Carl Richard Wise, A.B. (*West Virginia Univ.*) 1928.

#### M.D. cum Laude in Neuropathology

Lester Snow King, A.B. 1927.

#### M.D. cum Laude in Surgery

Henry Knowles Beecher, A.B. (*Univ. of Kansas*) 1926, A.M. (*ibid.*) 1927.  
 Jacob James Longacre, A.B. (*Lehigh Univ.*) 1928.

#### M.D. Magna cum Laude

Willard Burns Rew, A.B. (*Pomona Coll.*) 1928.  
 Claude Emerson Welch, A.B. (*Doane Coll.*) 1927, A.M. (*Univ. of Missouri*) 1929.



## STUDENTS

## FOURTH CLASS

- Adams, Donald Stevens, A.B. (*Univ. of Oregon*) 1929. *Portland, Ore.*  
 Adams, Ralph, A.B. (*Vanderbilt Univ.*) 1929. *Woodbury, Tenn.*  
 Alper, Joseph Meyer, S.B. 1929. *New York, N.Y.*  
 Ames, Frederick Daniel, A.B. (*Univ. of Texas*) 1928. *Decatur, Ga.*  
 Babey, Andrew Michael, A.B. (*New York Univ.*) 1929. *Brooklyn, N.Y.*  
 Bailey, George Guy, Jr., A.B. 1929. *Ipswich*  
 Beaman, George Burnham, Jr., S.B. 1927. *Newton*  
 Benjamin, Louis Burton, A.B. 1929. *Dorchester*  
 Betts, Reeve Hawkins, A.B. (*Willamette Univ.*) 1929. *Athena, Ore.*  
 Bloch, William Austin, S.B. (*Virginia Military Inst.*) 1929. *Louisville, Ky.*  
 Bloomberg, Allan Ellia, S.B. 1929. *Atlantic City, N.J.*  
 Boone, John Alfred, Jr., A.B. (*Univ. of Texas*) 1927, A.M. (*ibid.*) 1929. *Harlingen, Tex.*  
 Brown, Kenneth Alfred, A.B. (*Boston Coll.*) 1929. *Weston*  
 \*Brown, Robert Lee, A.B. (*Univ. of Michigan*) 1929 [Univ. of Michigan  
 Medical School]. *Rochester, N.Y.*  
 Bushnell, Lowell Francis, A.B. (*Univ. of Wisconsin*) 1929. *Danville, Ill.*  
 Campbell, Joseph Lawrence, A.B. 1929. *Cotuit*  
 Cannon, Bradford, S.B. 1929. *Cambridge*  
 †Carter, Marshall Lloyd (*Stanford Univ.*). *Los Angeles, Calif.*  
 \*†Christman, Herbert Emanuel, A.B. (*Dartmouth Coll.*) 1930 [Dartmouth  
 Medical School]. *Lakewood, O.*  
 Cogswell, Lawrence Perley, A.B. (*Univ. of Maine*) 1927. *Washington, D.C.*  
 Cohen, Archibald Clinton, A.B. 1928. *Watertown*  
 Comeau, Wilfrid Joseph, Jr., A.B. (*Amherst Coll.*) 1929. *Worcester*  
 Corbus, Budd Clarke, Jr., A.B. (*Univ. of Wisconsin*) 1929. *Evanston, Ill.*  
 Cozzolino, Eugene Norris, A.B. (*St. John's Coll.*) 1929. *West Haven, Conn.*  
 Crile, George Harris, PH.B. (*Yale Univ.*) 1929. *Cleveland, O.*  
 Crumay, Hugh Meyers, S.B. (*Mount Union Coll.*) 1929. *Bradford Woods, Pa.*  
 Degen, John Alden, Jr., A.B. (*Princeton Univ.*) 1929. *Chestnut Hill*  
 Dexter, Smith Owen, Jr., A.B. 1929. *Cambridge*  
 Doak, Alfred Deaderick, A.B. (*Georgetown Coll.*) 1928. *Middlesboro, Ky.*  
 Dockweiler, Robert Reeve, S.B. (*Notre Dame Univ.*) 1929. *Los Angeles, Cal.*  
 Dunham, Carl Ernest, S.B. (*Bowdoin Coll.*) 1924. *Portland, Me.*  
 Dunphy, John Englebert, A.B. (*Coll. of the Holy Cross*) 1929. *Northampton*  
 D'Urso, John, S.B. (*Villanova Coll.*) 1929. *Lawrence*  
 Earl, John Robert, A.B. (*Carleton Coll.*) 1929. *St. Paul, Minn.*  
 Emerson, Kendall, Jr., A.B. (*Yale Univ.*) 1929. *New York, N.Y.*  
 \*Farnsworth, Dana Lyda, A.B. (*West Virginia Univ.*) 1927 [West Virginia  
 Medical School]. *Linn, W. Va.*  
 Ferguson, Charles Foss, A.B. 1929. *Marblehead*  
 \*Fowler, William O'Kelly, S.B. (*Virginia Military Inst.*) 1929 [Univ. of N.  
 Carolina Medical School]. *Greensboro, N.C.*  
 Fränckle, Cornelius Shaw, Jr., A.B. (*Johns Hopkins Univ.*) 1928. *Millville, N.J.*

\* Transferred to Third Year Class.

† Admitted on basis of three years' college work (in several cases work for degree completed).



- Gale, Samuel, s.B. (*Tufts Coll.*) 1929. Mattapan  
Garber, Jared Young, s.B. (*Louisiana State Univ.*) 1929. Morgan City, La.  
\*Gates, Donald Coats, A.B. 1926, A.B. (*Univ. of Cambridge*) 1930 [Univ. of  
Cambridge Medical School]. Gray, Me.  
†Greene, Jeremiah Evarts (*Harvard Univ.*). Newton Centre  
\*†Gullord, Edward George, A.B. (*Univ. of Wisconsin*) 1930, A.M. (*ibid.*) 1931  
[Univ. of Wisconsin Medical School]. Greenwood, Wis.  
Hamilton, James Rachford, A.B. (*Central Coll.*) 1929. Laclede, Mo.  
Hamlin, Edward, Jr., A.B. 1929. Boston  
Harris, Jerome Silvan, A.B. (*Dartmouth Coll.*) 1929. New York, N.Y.  
Hawkins, Ralph Leslie, A.B. (*Stanford Univ.*) 1929. Sheridan, Wyo.  
Hazen, Donald Robert, A.B. (*Amherst Coll.*) 1929. Thomaston, Conn.  
Heyl, Henry Livingston, A.B. (*Hamilton Coll.*) 1928. New Canaan, Conn.  
Hill, Leonard Withington, A.B. (*Oglethorpe Univ.*) 1929. Rochester, N.Y.  
Hill, William Robinson, Jr., A.B. (*Coll. of the Holy Cross*) 1929. Providence, R.I.  
Holleman, Joseph Hilbrandt, A.B. (*Univ. of South Dakota*) 1926. Springfield, S. Dak.  
°Hopkins, Stanford William, A.B. 1929 [Columbia Univ. Medical School]. Chestnut Hill  
Hosterman, Oliver William A.B. (*Cornell Univ.*) 1929. Buffalo, N.Y.  
Huggins, Victor Spencer, A.B. (*Acadia Univ.*) 1929. Parrsboro', N.S., Canada  
Hunter, Max Robert, s.B. (*Univ. of Washington*) 1929. Seattle, Wash.  
Hyder, Prentiss Lum, A.B. (*Univ. of Texas*) 1929. Memphis, Tex.  
Ingalls, Theodore Hunt, A.B. (*Hamilton Coll.*) 1929. New Hartford, N.Y.  
†Ingraham, Hollis Steadman, A.B. 1930. Brookline  
Jackson, Howard Colman, A.B. (*Univ. of Michigan*) 1929. Kalamazoo, Mich.  
†Jonas, August Frederick (*Univ. of Wisconsin*). Omaha, Neb.  
Kelley, Robert Reed, A.B. (*Univ. of Illinois*) 1929. Champaign, Ill.  
\*Kennedy, John William, Jr., A.B. (*Univ. of Missouri*) 1929, A.M., s.B. (*ibid.*)  
1931 [Univ. of Missouri Medical School]. Wheatland, Wyo.  
Kind, Henry Armand, s.B. (*Lafayette Coll.*) 1929. Philadelphia, Pa.  
\*Kundert, Palmer Rudolf, A.B. (*Univ. of Wisconsin*) 1929 [Univ. of Wisconsin  
Medical School]. Madison, Wis.  
Lewis, James, A.B. (*Colgate Univ.*) 1929. Holland Patent, N.Y.  
Lichty, Joseph Stoner, A.B. (*Princeton Univ.*) 1929. Chautauqua, N.Y.  
Lium, Rolf, A.B. (*Carleton Coll.*) 1928. Northfield, Minn.  
Low, Merritt Burnham, A.B. (*Princeton Univ.*) 1929. Norton  
Lynch, George William, A.B. 1929. Woburn  
Lynn, William Frederic, A.B. (*Univ. of Kansas*) 1929. Tampico, Mex.  
Mack, James Ralph, A.B. 1928. Cincinnati, O.  
Martin, John Walter, Jr., A.B. (*Dartmouth Coll.*) 1929. Baltimore, Md.  
Mather, Ralph Wallace, A.B. (*Univ. of Southern California*) 1929. Los Angeles, Calif.  
McKean, George Thomas, A.B. (*Univ. of Michigan*) 1929. Detroit, Mich.  
McKelvey, George McConnell, A.B. (*Dartmouth Coll.*) 1929. Youngstown, O.  
McNamara, Francis Joseph, A.B. (*Boston Coll.*) 1929. Melrose  
Medoff, Edward Bernard, A.B. (*Brown Univ.*) 1929. Woonsocket, R.I.  
Miller, Benjamin Frank, s.B. (*Mass. Institute of Technology*) 1928. Fitchburg

° Transferred to Second Year Class.

\* Transferred to Third Year Class.

† Admitted on basis of three years' college work (in several cases work for degree completed).

- Murphey, Francis, A.B. (*Vanderbilt Univ.*) 1929. Macon, Miss.  
 Nash, Newman Curtis, A.B. (*Yankton Coll.*) 1928. Yankton, S.Dak.  
 Nichols, Howard Gage, A.B. (*Dartmouth Coll.*) 1929. Haverhill  
 \*Noyes, Marion Beal, A.A. (*Snow Coll.*) 1927, A.B. (*Univ. of Utah*) 1930 [Univ.  
 of Utah Medical School]. Ephraim, Utah  
 O'Brien, Martin John, S.B. (*R. I. State Coll.*) 1928. Wickford, R.I.  
 Olson, Kenneth Barrie, S.B. (*Univ. of Washington*) 1929. Seattle, Wash.  
 Parnall, Christopher Gregg, Jr., A.B. (*Amherst Coll.*) 1929. Rochester, N.Y.  
 Pitts, William Reid, A.B. (*Duke Univ.*) 1929. Glen Alpine, N.C.  
 \*†Placak, Joseph Charles, Jr., A.B. (*Dartmouth Coll.*) 1930 [Dartmouth  
 Medical School]. Cleveland Heights, O.  
 Prigot, Aaron, A.B. 1928. Brookline  
 Queen, William Foster, A.B. (*Stanford Univ.*) 1929. Louisa, Ky.  
 Quigley, Thomas Bartlett, A.B. 1929. Omaha, Neb.  
 †Reiling, Walter Anthony (*Univ. of Dayton*). Dayton, O.  
 Ripley, Herbert Spencer, Jr., A.B. (*Univ. of Michigan*) 1929. Oak Park, Ill.  
 Rowe, Carter Redd, A.B. (*Davidson Coll.*) 1928. Fredericksburg, Va.  
 Rupp, Charles, Jr., A.B. 1929. Philadelphia, Pa.  
 St. Clair, Wade Hampton, Jr., S.B. (*Davidson Coll.*) 1929. Bluefield, W. Va.  
 Sanford, Hawley Seager, S.B. (*Northwestern Univ.*) 1929. Rochester, Minn.  
 Seely, Hall, A.B. (*Yale Univ.*) 1929. Roseburg, Ore.  
 Settlage, Arnold Frederick Ernest, A.B. (*Heidelberg Coll.*) 1929. St. Louis, Mo.  
 Sewall, Kenneth Wilkins, A.B. (*Bowdoin Coll.*) 1929. Livermore Falls, Me.  
 \*†Sharber, Trimble, A.B. (*Vanderbilt Univ.*) 1930 [Vanderbilt Univ. Medical  
 School]. Nashville, Tenn.  
 \*Sheldon, John, A.B. (*Univ. of Kansas*) 1929 [Univ. of Kansas Medical  
 School]. Oskaloosa, Kans.  
 Shepard, Kirk, A.B. (*Univ. of Georgia*) 1927, S.B. (*ibid.*) 1929. Moultrie, Ga.  
 Simmons, Fred Albert, Jr., A.B. (*Yale Univ.*) 1929. Boston  
 Smith, Harold Diemer, A.B. (*Pomona Coll.*) 1929. Pomona, Calif.  
 Soley, Mayo Hamilton, S.B. (*Bowdoin Coll.*) 1929. Malden  
 Souders, Carlton Remsberg, S.B. (*Franklin & Marshall Coll.*) 1929. Lancaster, Pa.  
 †Staples, Clarke, A.B. (*Wesleyan Univ.*) 1929. Chestnut Hill  
 Stewart, Artemas James, A.B. 1929. Lowell  
 Sullivan, Daniel Jeremiah, S.B. 1929. Manchester, N.H.  
 Thieme, Elliott Thurston, A.B. (*Univ. of Michigan*) 1929. Ann Arbor, Mich.  
 \*†Thomas, Robert Lancefield, A.B. (*Stanford Univ.*) 1930 [Stanford Univ.  
 Medical School]. Portland, Ore.  
 †Thompson, William Graham (*Mass. Institute of Technology*). Andover  
 Trees, Clyde Beverly, A.B. (*Univ. of Kansas*) 1929. Winfield, Kans.  
 Trommald, John Poulsen, S.B. (*Yale Univ.*) 1929. Portland, Ore.  
 Turtle, William John, PH.B. (*Brown Univ.*) 1926. Wollaston  
 †Underwood, Franklin Judson (*Stanford Univ.*). Portland, Ore.  
 Walzer, Leo, A.B. 1929. Cleveland Heights, O.  
 Ward, John Langdon, A.B. (*Amherst Coll.*) 1929. Newton Highlands  
 Warren, Robert Fiske, A.B. (*Univ. of Michigan*) 1929. Brooklyn, N.Y.  
 Weinstein, Abraham, A.B. 1929. Chelsea

\* Transferred to Third Year Class.

† Transferred to Fourth Year Class.

‡ Admitted on basis of three years' college work (in several cases work for degree completed.)

- Welch, Oliver William, A.B. (*Univ. of Alabama*) 1929. Talladega, Ala.  
 Wheatley, George Milholland, S.B. (*Catholic Univ. of America*) 1929. Beverly  
 Wheeler, Warren Elwell, S.B. (*Mount Union Coll.*) 1929. Calumet City, Ill.  
 Whelan, Charles Stephen, A.B. (*Coll. of the Holy Cross*) 1929. Worcester  
 \*Wilkins, Robert Wallace, A.B. (*Univ. of N. Carolina*) 1928 [Univ. of N.  
 Carolina Medical School]. Greensboro, N.C.  
 Williams, Seiriol Llewelyn, S.B. (*Hastings Coll.*) 1929. Nanaimo, B.C., Canada  
 Wilson, Robert Ory, A.B. (*Princeton Univ.*) 1927. Pleasant Valley, Conn.  
 Woodruff, Harry Walter, A.B. (*Dartmouth Coll.*) 1929. Joliet, Ill.  
 Yandell, Hays Richman, Ph.B. (*Yale Univ.*) 1929. San Antonio, Tex.  
 †Youngman, Robert Armstrong (*Univ. of Kansas*). Harveyville, Kans.  
 Zeller, John Wallace, A.B. 1929. Sault-Ste.-Marie, Mich.

## THIRD CLASS

- Adams, Lewis Nelson, A.B. (*Stanford Univ.*) 1930. Aberdeen, Wash  
 Alexander, Benjamin, A.B. 1930. Dorchester  
 Allen, Chester Boice, Jr., A.B. 1930. Melrose Hlds  
 Allen, Pliny Arunah, 3d, S.B. (*Bowdoin Coll.*) 1930. N. Adams  
 Alsever, John Bellows, A.B. (*Syracuse Univ.*) 1930. Syracuse, N.Y.  
 Anderson, Clifton Winthrop, A.B. (*Colgate Univ.*) 1930. Greenwich, Conn.  
 \*Anderson, Frederick Mather, S.B. (*Univ. of Nevada*) 1928 [Univ. of Oxford  
 Medical School]. Carson City, Nev.  
 \*†Aufranc, Otto Elmo, A.B. (*Univ. of Missouri*) 1931, S.B. (*ibid.*) 1932 [Univ.  
 of Missouri Medical School]. Columbia, Mo.  
 Austen, George, Jr., A.B. (*Princeton Univ.*) 1930. University, Va.  
 Bailey, Gayton Sriver, S.B. (*Whitman Coll.*) 1930. Seattle, Wash.  
 \*†Barker, Robert Howard, A.B. (*Dartmouth Coll.*) 1931 [Dartmouth Medical  
 School]. Bay Village, O.  
 Beckwith, Donald Macfarlane, A.B. (*Johns Hopkins Univ.*) 1928. Port Jefferson, L.I., N.Y.  
 †Beeman, Carl Burritt (*Albion Coll.*). Grand Rapids, Mich.  
 Beizer, Lawrence, S.B. (*Univ. of Pennsylvania*) 1930. Scranton, Pa.  
 Bell, George Olaf, A.B. (*Colgate Univ.*) 1930. Nanticoke, Pa.  
 Bickley, Donald Wade, S.B. (*Univ. of Chicago*) 1930. Waterloo, Ia.  
 Bienkowski, Joseph George, S.B. (*Trinity Coll.*) 1930. Torrington, Conn.  
 Billo, Otto Emile, A.B. (*Williams Coll.*) 1930. Glen Ridge, N.J.  
 Bovarnick, Maxwell, A.B. 1930. Buffalo, N.Y.  
 Brown, Henry Austin, A.B. (*Univ. of Michigan*) 1930. Chillicothe, O.  
 Bruce, Norman Hull, A.B. 1930. Brighton  
 Carter, Claude Levant, A.B. (*Mercer Univ.*) 1929. Valdosta, Ga.  
 Cassaday, Paul Brinten, S.B. (*Mount Union Coll.*) 1930. Alliance, O.  
 Clark, Robert Alfred, A.B. 1930. Lowell  
 Cooper, Philip, A.B. (*Boston Univ.*) 1930. Dorchester  
 Crowley, John Joseph, A.B. (*Coll. of the Holy Cross*) 1930. Lynn  
 Darling, Robert Croly, A.B. 1929. New York, N.Y.  
 Delaney, Joseph Henry, S.B. (*Montana State Coll.*) 1930. Bozeman, Mont.  
 Donovan, Thomas Joseph, S.B. (*Univ. of Notre Dame*) 1930. St. Paul, Minn.  
 Dunlap, Charles Edward, A.B. 1930. Scarsdale, N.Y.  
 Dziob, John Stanislaus, Ph.B. (*Brown Univ.*) 1930. Woonsocket, R.I.  
 Eddy, Maxon Hunter, A.B. (*Yale Univ.*) 1929. Middlebury, Vt.

\* Transferred to Third Year Class.

† Admitted on basis of three years' college work (in several cases work for degree completed).



- † Edsall, Geoffrey (*Harvard Univ. and Univ. of California*)<sup>\*</sup> Milton  
 Edwards, Joseph Castro, A.B. (*Univ. of Oklahoma*) 1930. Enid, Okla.  
 Elsemore, Dexter Everett, S.B. (*Colby Coll.*) 1930. Grand Lake Stream, Me.  
 Ferree, Joseph Wiley, A.B. (*Stanford Univ.*) 1930. Auburn, Calif.  
 Finkelstein, William, A.B. 1929. Waterbury, Conn.  
 Fleming, John Gwyn, A.B. (*Oberlin Coll.*) 1928. Cincinnati, O.  
 Fox, George Graham, S.B. (*Yale Univ.*) 1930. Meriden, Conn.  
 Freedman, David, A.B. (*Brown Univ.*) 1930. Providence, R.I.  
 Freeman, Don William, A.B. (*Univ. of Texas*) 1930. Denison, Tex.  
 Garber, Stanley Thomas, S.B. (*Princeton Univ.*) 1930. Glendale, O.  
 Giannetti, Ernest Desiderio, S.B. (*Rutgers Univ.*) 1930. Montclair, N.J.  
 Goodson, William Hammack, Jr., A.B. (*Univ. of Missouri*) 1930. Liberty, Mo.  
 Graham, John Ruskin, A.B. 1930. W. Roxbury  
 Hardenbergh, Daniel Bailey, Jr., A.B. (*Yale Univ.*) 1930. Middletown, N.Y.  
 Harney, Aloysius Patrick, S.B. (*Georgetown Univ.*) 1930. New Bedford  
 Hartman, Frederick Bittinger, A.B. (*Hamilton Coll.*) 1930. Liberty, N.Y.  
 Harwood, Reed, A.B. 1929. Brookline  
 \* Hashimoto, Edward Ichiro, A.B. (*Univ. of Utah*) 1930 [Univ. of Utah Medical School] Salt Lake City, Utah  
 \* † Hayward, Oliver Stoddard, A.B. (*Dartmouth Coll.*) 1931 [Dartmouth Medical School] Squantum  
 Heffner, George Paul, A.B. 1930. Wapakoneta, O.  
 Higgins, Francis Henry, Jr., A.B. (*Boston Coll.*) 1930. Waltham  
 \* Hight, Donald, A.B. (*Dartmouth Coll.*) 1930 [Dartmouth Medical School]. Winchester  
 Hopkins, John James, A.B. (*Stanford Univ.*) 1930. San Francisco, Calif.  
 \* † Huston, Lewis Lee, S.B. (*Univ. of Iowa*) 1932 [Univ. of Iowa Medical School] Cedar Rapids, Ia.  
 Ingham, Thomas Reed, S.B. (*Univ. of Washington*) 1930. Olympia, Wash.  
 January, Harold Linton, A.B. 1930. Osawatomie, Kans.  
 Jarrett, William Armistead, A.B. (*Hamilton Coll.*) 1930. Princeton, N.J.  
 \* Jennings, Percy Hall, Jr., A.B. (*Yale Univ.*) 1930 [Cornell Univ. Medical School] New York, N.Y.  
 Kelley, Charles Henry, S.B. 1930. Cambridge  
 King, Samuel Joshua, S.B. (*Juniata Coll.*) 1928. Ridgely, Md.  
 Kozol, Harry Leo, S.B. 1927. Brookline  
 Lampson, Rutledge Starr, A.B. (*Amherst Coll.*) 1930. Hartford, Conn.  
 § Leigh, Octa Charles, Jr. (*Univ. of Virginia*). Eupora, Miss.  
 Logan, George Bryan, S.B. (*Washington and Jefferson Coll.*) 1930. Rochester, Minn.  
 \* Lord, George Alexander, A.B. (*Dartmouth Coll.*) 1930 [Dartmouth Medical School] Glen Ridge, N. J.  
 Lowis, Samuel, A.B. 1929. Fitchburg  
 Mahlowitz, Alexander, A.B. 1929. Somerville  
 Martin, Samuel Forrest, A.B. 1929. Maryville, Mo.  
 McCue, Martin Patrick, S.B. (*Rhode Island State Coll.*) 1930. New London, Conn.  
 McDermott, Leo James, A.B. (*Coll. of the Holy Cross*) 1929. Portland, Me.

\* Transferred to Third year class.

† Admitted on basis of two years' college work.

‡ Admitted on basis of three years' college work (in several cases work for degree completed).

§ Admitted on basis of four years' college work (in several cases work for degree completed).



- †McKeen, Harold Reid, Jr. (*Univ. of Colorado*). Denver, Colo.  
 †McLean, Edwin Bumstead (*Univ. of California and San Diego State Coll.*). Berkeley, Calif.  
 Mitchell, Roger Sherman, A.B. 1930. Glens Falls, N.Y.  
 Moore, James Alanson, S.B. (*Davidson Coll.*) 1930. Mooresville, N.C.  
 Moran, William Henry, S.B. (*Univ. of Notre Dame*) 1930. Scranton, Pa.  
 Morison, Robert Swain, A.B. 1930. Milwaukee, Wis.  
 Morrison, Harvey Rowe, S.B. (*Yale Univ.*) 1930. Brookline  
 Moulton, Robert Taylor, A.B. 1930. W. Peabody  
 Mueller, Harry Louis, S.B. 1930. Steubenville, O.  
 Mullane, Daniel Joseph, A.B. 1930. Jamaica Plain  
 Newman, Herbert Francis, A.B. (*Amherst Coll.*) 1930. Brooklyn, N.Y.  
 Nielsen, Aage Emanuel, PH.B. (*Univ. of Copenhagen*) 1923. Copenhagen, Denmark  
 \*Noyes, Rae Eugene, A.A. (*Snow Coll.*) 1925, A.B. (*Univ. of Utah*) 1930 [Univ. of Utah Medical School]. Ephraim, Utah  
 \*Nuessle, Robert Frederick, A.B. (*Univ. of North Dakota*) 1930, S.B. (*ibid.*) 1932 [Univ. of N. Dakota Medical School]. Bismarck, N. Dak.  
 \*Okelberry, Alfred Moyle, A.B. (*Univ. of Utah*) 1929, A.M. (*ibid.*) 1931 [Univ. of Utah Medical School]. Salt Lake City, Utah  
 \*Olinger, Meredieth Thomas, A.B. (*Univ. of Kansas*) 1929 [Univ. of Kansas Medical School]. Burlington, Kans.  
 \*O'Neil, Frank Church, A.B. (*Univ. of N. Carolina*) 1930 [Univ. of N. Carolina Medical School]. Henderson, N. C.  
 \*Otis, Grant Lyman, PH.B. (*Univ. of Wisconsin*) 1927 S.M. (*ibid.*) 1932. [Univ. of Wisconsin Medical School]. Madison, Wis.  
 Parker, James Mitchell, A.B. (*Bowdoin Coll.*) 1930. Cape Elizabeth, Me.  
 Peacock, Eldred Giles, S.B. (*State Coll. of Washington*) 1928. Yakima, Wash.  
 Pearce, John Musser, PH.B. (*Yale Univ.*) 1930. New York, N.Y.  
 Pelton, Thurlow Hemsworth, A.B. (*Colgate Univ.*) 1930. Westfield, N.J.  
 †Peterson, Richard Lau (*Univ. of Nebraska*). Omaha, Neb.  
 Philips, Smith Gibson, S.B. (*State Coll. of Washington*) 1927. Waitsburg, Wash.  
 Pierce, Frank Richard, A.B. 1930. Melrose  
 Putnam, Lawrence Elias, A.B. 1930. S. Boston  
 Reidy, John Aloysius, Jr., S.B. (*Univ. of New Mexico*) 1930. Albuquerque, N. Mex.  
 Reiter, Benjamin Reynolds, S.B. (*Princeton Univ.*) 1930. Bethlehem, Pa.  
 Renick, Charles Alexander, A.B. (*Univ. of Michigan*) 1930. Chillicothe, O.  
 \*Rhineland, Frederic William, 2d, A.B. 1928, B.A. (*Univ. of Oxford*) 1931 [Univ. of Oxford Medical School]. Boston  
 Roberg, Norman Bridge, S.B. (*Princeton Univ.*) 1930. Chicago, Ill.  
 Rutstein, David Davis, S.B. 1930. Wilkes-Barre, Pa.  
 Scatchard, George Newton, A.B. (*St. John's Coll., Md.*) 1930. Oneonta, N.Y.  
 Scholle, Norbert William, A.B. (*Westminster Coll.*) 1930. Concordia, Mo.  
 \*Scott, Edgar Marvin, Jr., A.B. (*Univ. of Alabama*) 1927, A.M. (*ibid.*) 1929 [Univ. of Alabama Medical School]. Birmingham, Ala.  
 Simeone, Fiorindo Anthony, A.B. (*Brown Univ.*) 1929, S.M. (*ibid.*) 1930. Providence, R.I.  
 Stanek, William Frank, Jr., A.B. (*Yale Univ.*) 1930. Denver, Colo.

\* Transferred to Third year class.

† Admitted on basis of three years' college work (in several cases work for degree completed).

Staples, Oscar Sherwin, Jr., A.B. 1930.

Hyde Park

Stillman, James Sydney, Jr., A.B. (*Amherst Coll.*) 1929.

Mountain Lakes, N.J.

\*†Stone, Robert Edwards, A.B. (*Univ. of N. Carolina*) 1931 [*Univ. of N. Carolina Medical School*].

Greensboro, N.C.

Suby, Howard Ingram, A.B. (*Univ. of Wisconsin*) 1930.

Stoughton, Wis.

Sullivan, Eugene Roger, A.B. (*Coll. of the Holy Cross*) 1930.

Fall River

Sullivan, Garrett Leo, Jr., A.B. (*Boston Coll.*) 1930.

Cambridge

\*Thomas, Horace Edward, A.B. (*Univ. of Missouri*) 1930, S.B. and A.M. (*ibid.*) 1932 [*Univ. of Missouri Medical School*].

Columbia, Mo.

Thompson, Richard Hildreth, A.B. 1930.

Marblehead

Thorne, Irving James, S.B. (*Univ. of Virginia*) 1930.

Portsmouth, Va.

\*†Thornton, John Jibb (*Univ. of N. Carolina*) [*Univ. of N. Carolina Medical School*].

Greensboro, N.C.

\*Toenhart, Otto Erich, S.B. (*Univ. of Wisconsin*) 1926, S.M. (*ibid.*) 1927, PH.D. (*ibid.*) 1929 [*Univ. of Wisconsin Medical School*].

Madison, Wis.

Tracy, Ellsworth Morton, A.B. (*Amherst Coll.*) 1930.

Wellesley

Tudor, Frederic, S.B. 1930.

Redding, Conn.

Usher, Glenn Spokesfield, A.B. (*Oberlin Coll.*) 1930.

Wenatchee, Wash.

Warren, Richard, A.B. 1929.

Brookline

Warthin, Thomas Angell, A.B. (*Univ. of Michigan*) 1930.

Ann Arbor, Mich.

White, Benjamin Vroom, Jr., A.B. (*Princeton Univ.*) 1930.

Summit, N.J.

Whitehill, Meyer Richard, S.B. (*Univ. of Virginia*) 1930.

Norfolk, Va.

Whiting, Richard George, A.B. 1928.

W. Medford

Wilcox, John Charles, A.B. (*Pomona Coll.*) 1930.

Los Angeles, Calif.

Wolf, Jack Walter, A.B. 1930.

Kansas City, Mo.

\*†Wollaeger, Eric Edwin, A.B. (*Dartmouth Coll.*) 1931 [*Dartmouth Medical School*].

Milwaukee, Wis.

Yee, Samuel Lim, A.B. (*Univ. of Hawaii*) 1930.

Honolulu, Hawaii

Young, Edmund Stanley, A.B. (*Ohio State Univ.*) 1930.

Columbus, O.

Zetzel, Louis, A.B. 1929.

Chelsea

## SECOND CLASS

Appleton, Francis Merrill, A.B. (*Bowdoin Coll.*) 1931.

Dublin, N.H.

Barrow, David Woolfolk, PH.B. (*Yale Univ.*) 1931.

New Haven, Conn.

Bates, Osmund George, S.B. (*Northwestern Univ.*) 1931.

Ely, Nev.

Beckman, William Woods, S.B. (*Univ. of Florida*) 1931.

St. Petersburg, Fla.

Bell, John Frye, A.B. (*Yale Univ.*) 1931.

Newton Centre

Bell, Leslie M., A.B. (*Univ. of Alabama*) 1929, S.M. (*ibid.*) 1930.

Dozier, Ala.

Berenberg, Samuel Righter, A.B. (*Amherst Coll.*) 1931.

Boston

Bolanowski, Kasimier Joseph, S.B. (*Rutgers Univ.*) 1931.

Elizabeth, N.J.

Botsford, Thomas Winston, A.B. (*Univ. of Missouri*) 1931.

Chillicothe, Mo.

Brenner, Charles, A.B. 1931.

Cambridge

Burke, Francis Madden, A.B. 1931.

Natick

Caffee, Henry Hollis, S.B. 1931.

Winter Haven, Fla.

Caldwell, Charles Wickliffe, Jr., A.B. (*Centre Coll.*) 1930.

Danville, Ky.

Campbell, James Bethune, A.B. 1931.

Jamaica Plain

Carpenter, Parker, A.B. (*Dartmouth Coll.*) 1931.

Lancaster, N.H.

Cerrato, Calvin Michele (*Harvard Univ.*)

Foggia, Italy

Clark, Samuel Drury, A.B. 1931.

Orono, Me.

Clement, David Hale, A.B. (*Yale Univ.*) 1931.

Buffalo, N.Y.

Cogan, James Richard, A.B. 1931.

Lynn

\* Transferred to Third year class.

† Admitted on basis of three years' college work (in several cases work for degree completed).

- Cover, William Llewellyn, A.B. (*Pomona Coll.*) 1931. Claremont, Calif.  
 Cowan, Albert Wallace, S.B. (*Davidson Coll.*) 1931. Bristol, Tenn.  
 Cowin, John Phister, A.B. 1931. Boston  
 Croce, Edmund John, A.B. (*Coll. of the Holy Cross*) 1930. Worcester  
 Cunney, John Vincent, A.B. (*Boston Coll.*) 1930, S.M. (*ibid.*) 1931. Salem  
 Curnen, Edward Charles, Jr., A.B. (*Yale Univ.*) 1931. Bronxville, N.Y.  
 Dawson, William Ewald, A.B. (*Boston Coll.*) 1931. Brookline  
 Donaldson, Gordon Alcock, A.B. 1931. Lincoln  
 Dutton, Robert, A.B. 1931. Wakefield  
 †Ewell, John Woodruff (*Yale Univ.*). Auburn, N.Y.  
 Filmer, George Arnold, A.B. (*Denver Univ.*) 1931. Denver, Colo.  
 Flannery, Wilbur Eugene, A.B. (*Dartmouth Coll.*) 1929, A.M. (*Oberlin Coll.*)  
 1930. New Castle, Pa.  
 Forster, Donald Edgar, A.B. (*Colgate Univ.*) 1931. Ridgewood, N.J.  
 French, Travis Armitage, S.B. (*Westminster Coll.*) 1931. New Castle, Pa.  
 Friend, Dale Gilbert, A.B. (*State Univ. of Iowa*) 1930, S.M. (*ibid.*) 1931.  
 Missouri Valley, Ia.  
 Frothingham, John Gerrish, A.B. 1931. New Canaan, Conn.  
 Getting, Vlado Andrew, A.B. (*Johns Hopkins Univ.*) 1931. Pittsburgh, Pa.  
 Giddings, Paul Dudley, A.B. (*Univ. of Maine*) 1929, A.M. (*ibid.*) 1931.  
 Augusta, Me.  
 Giffin, Lewis Albee, S.B. (*Trinity Coll.*) 1931. W. Hartford, Conn.  
 Gilmour, Monroe Taylor, A.B. (*Davidson Coll.*) 1929, A.M. (*Princeton Univ.*)  
 1930. Wilmington, N.C.  
 †Greenleaf, Henry McClellan (*Dartmouth Coll.*)  
 Grindlay, John Happer, A.B. (*Oberlin Coll.*) 1931. Brookline  
 Youngstown, O.  
 †Gundersen, Thorolf Egil (*Univ. of Wisconsin*)  
 Hadler, Arthur Joseph, A.B. 1931. La Crosse, Wis.  
 Roxbury  
 Hall, Donald Thornton, S.B. (*Univ. of Washington*) 1931. Seattle, Wash.  
 Hanford, Russell Bratton, S.B. (*Univ. of Idaho*) 1930. Oakesdale, Wash.  
 Harken, Dwight Emary, A.B. 1931. Osceola, Ia.  
 Hawkins, James Wesley, S.B. (*Univ. of Idaho*) 1930, S.M. (*ibid.*) 1931.  
 Coeur d'Alene, Ida.  
 Henderson, John Wilson, Jr., A.B. 1931. W. Roxbury  
 Hindman, Daniel Harold, A.B. 1931. Lawrence  
 Hobbs, Wayne, A.B. 1931. S. Hamilton  
 Holmes, Joseph Alexander, A.B. 1931. Kingston  
 Howard, George Carlson, A.B. (*Dartmouth Coll.*) 1931. Astoria, L.I., N.Y.  
 Jardine, Ralph Ramsay, A.B. (*Amherst Coll.*) 1931. Brooklyn, N.Y.  
 Jones, James Frederick, A.B. (*Univ. of Michigan*) 1931. Youngstown, O.  
 †Jorgensen, Gilbert Martin (*Univ. of Nebraska*). Minden, Nebr.  
 Keane, Geoffrey Patrick, A.B. 1931. W. Roxbury  
 §Kimball, Stanley (*Princeton Univ.*). Dedham  
 Kinney, Robert John, A.B. (*Princeton Univ.*) 1931. Brooklyn, N.Y.  
 Kjellesvig, Kolbein Ludvig, A.B. (*Univ. of N. Carolina*) 1931.  
 Weehawken, N.J.  
 Louie, Stanley, S.B. (*Univ. of Washington*) 1929. Seattle, Wash.  
 Manning, Isaac Hall, Jr., A.B. (*Univ. of North Carolina*) 1931.  
 Chapel Hill, N.C.

† Admitted on basis of three years' college work (in several cases work for degree completed).

§ Admitted on basis of four years' college work (in several cases work for degree completed).



- §May, Charles Davidson (*Mass. Institute of Technology* and *Harvard Univ.*)  
Ferguson, Mo.
- McCune, William Stanley, A.B. (*Swarthmore Coll.*) 1931. Petoskey, Mich.
- Meharg, John George, A.B. (*Lehigh Univ.*) 1931. Hamburg, Pa.
- Mellen, Richard Hager, A.B. (*Amherst Coll.*) 1931. Middlebury, Vt.
- Miller, Carroll Cameron, A.B. (*Yale Univ.*) 1931. Swampscott
- Moore, Stephen Halcuit, Jr., A.B. (*So. Meth. Univ.*) 1931. Dallas, Tex.
- Mote, John Robert, A.B. (*Univ. of Arizona*) 1930. Tucson, Ariz.
- Munce, Richard Thomas, A.B. (*Univ. of Maine*) 1931. Bangor, Me.
- Nesbitt, Samuel, S.B. (*Princeton Univ.*) 1931. Kingston, Pa.
- Ney, Joseph, S.B. (*Univ. of Virginia*) 1931. Harrisonburg, Va.
- Norcross, John Wells, S.B. 1932 (1931). Boston
- O'Brien, Francis Robert, A.B. (*Yale Univ.*) 1931. Boston
- O'Brien, Joseph Vincent, A.B. (*Coll. of the Holy Cross*) 1928, A.M. (Boston  
*Coll.*) 1929. Dorchester
- Ogden, Owen Silas, A.B. (*Univ. of Kentucky*) 1931. Winchester, Ky.
- Olcott, Cornelius, Jr., S.B. (*Princeton Univ.*) 1931. Brookline
- Otto, Carl Ludwig, Jr., S.B. (*Princeton Univ.*) 1931. Garden City, L.I., N.Y.
- Parsons, Herbert, A.B. (*Yale Univ.*) 1931. Harrison, N.Y.
- Partington, Philip Franklin, S.B. (*Yale Univ.*) 1931. E. Orange, N.J.
- Pease, Horace Barnes, S.B. 1930. Richmond Hill, N.Y.
- Perlenfein, Lester August, A.B. 1930. Jersey City, N.J.
- Poland, Warren Morrison, A.B. (*Amherst Coll.*) 1930. Wakefield
- Pope, Harrison Graham, A.B. 1931. W. Roxbury
- Putnam, Henry Mitchell, PH.B. (*Yale Univ.*) 1931. Winchester
- Rauh, Albert Ezekiel, A.B. (*Univ. of Cincinnati*) 1931. Cincinnati, O.
- Reinhardt, Warren Irwin, A.B. (*Johns Hopkins Univ.*) 1931. E. Orange, N.J.
- Rhea, Robert Lee, Jr., A.B. (*Univ. of Texas*) 1929. San Antonio, Tex.
- Richardson, Ralph Dennett, A.B. (*Brown Univ.*) 1931. Providence, R.I.
- Roach, Frederick Eugene, A.B. (*Western Reserve Univ.*) 1931. Lakewood, O.
- Roberts, Charles Dewees, A.B. (*Dartmouth Coll.*) 1931. E. Boston
- Robertson, James Easton, A.B. (*Univ. of California*) 1931. Santa Monica, Calif.
- Rogers, Daniel Miner, A.B. (*Univ. of Michigan*) 1931. New Britain, Conn.
- Rosenow, Edward Carl, 2d, A.B. (*Carleton Coll.*) 1931. Rochester, Minn.
- Ross, Ralph Adolph, A.B. 1931. Brighton
- †Ross, Rex Lewis, Jr. (*Univ. of Washington*). Yakima, Wash.
- Saunders, Gordon Armstrong, A.B. 1931. Belmont
- Saxe, Irving Henry, A.B. 1931. Passaic, N.J.
- Sheridan, Wallace Moore, PH.B. (*Yale Univ.*) 1930. Albuquerque, N. Mex.
- Sherman, Robert Stanton, PH.B. (*Brown Univ.*) 1931. Pawtucket, R.I.
- Shields, John Judd, S.B. (*Bucknell Univ.*) 1931. Pittsburgh, Pa.
- Simpson, Howard Nellson, A.B. 1931. Hazardville, Conn.
- Simrall, Harrison, Jr., A.B. (*Univ. of Michigan*) 1931. Lexington, Ky.
- Snow, Robert Groesbeck, A.B. (*Univ. of Utah*) 1931. Salt Lake City, Utah
- Snyder, John Crayton, A.B. (*Stanford Univ.*) 1931. Pasadena, Calif.
- Soule, Gilmore Weston, A.B. (*Bowdoin Coll.*) 1930. Augusta, Me.
- Soutter, Lamar, A.B. 1931. Boston
- †Stafford, Donald Edward (*Park Coll.*). Seattle, Wash.
- Strachan, Harry Leitch, Jr., A.B. 1931. Hyde Park
- Sunderland, Douglas Aykroyd, A.B. (*Swarthmore Coll.*) 1931. Glenside, Pa.

‡ Admitted on basis of three years' college work (in several cases work for degree completed)

§ Admitted on basis of four years' college work (in several cases work for degree completed).



Talmadge, Sam McNeil, S.B. ( <i>Univ. of Georgia</i> ) 1931.	Athens, Ga.
Thornley, William Francis, A.B. ( <i>Dartmouth Coll.</i> ) 1931.	Millburn, N.J.
Todd, Thomas Cabell, S.B. ( <i>Univ. of Virginia</i> ) 1927.	Richmond, Va.
Truax, Harmon Jardine, S.B. ( <i>Mass. Institute of Technology</i> ) 1931.	Velva, N. Dak.
Wallbank, William Louis, S.B. ( <i>Trinity Coll.</i> ) 1931.	New Britain, Conn.
Warner, Frank Amel, S.B. ( <i>Univ. of Idaho</i> ) 1931.	Boise, Ida.
Warner, John Howell, Jr., A.B. ( <i>Oberlin Coll.</i> ) 1931.	Oberlin, O.
Warren, Henry Stanley, A.B. 1931.	Melrose Hlds
Watkins, Arthur Lancaster, A.B. 1931.	Boston
Webb, Howard Philips, A.B. ( <i>Hamilton Coll.</i> ) 1931.	Whitesboro, N.Y.
Webster, Graham Taylor, A.B. 1931.	Cleveland, O.
Weir, William Corsane, A.B. 1931.	S. Euclid, O.
West, Francis Joseph, A.B. ( <i>Boston Coll.</i> ) 1931.	Dorchester
Wheeler, Charles Augustus, A.B. 1931.	Leominster
Whitelaw, George Percy, PH.B. ( <i>Yale Univ.</i> ) 1931.	N. Stonington, Conn.
Whitfield, Robert Day, A.B. ( <i>Coll. of the Holy Cross</i> ) 1931.	Albany, N.Y.
Wilkins, Samuel Bryan, Jr., A.B. ( <i>Univ. of Georgia</i> ) 1931.	Athens, Ga.
Woolley, Paul Vintcent, Jr., A.B. ( <i>Kansas Univ.</i> ) 1930, S.M. ( <i>Univ. of Idaho</i> ) 1931.	Kansas City, Mo.

## FIRST CLASS

Anderson, Albert Burton, S.B. ( <i>Yale Univ.</i> ) 1931.	W. Hartford, Conn.
Appel, John Wilberforce, 3d., S.B. 1932.	Scarsdale, N.Y.
Avery, Noyes Latham, Jr., A.B. ( <i>Williams Coll.</i> ) 1932.	Grand Rapids, Mich.
Baldwin, Arthur Dwight, A.B. ( <i>Amherst Coll.</i> ) 1932.	Canaan, N.H.
Barron, Edward Milton, A.B. 1932.	Dorchester
Bartram, John Bowman, S.B. ( <i>Hamilton Coll.</i> ) 1932.	Arlington, N.J.
Baum, Otto Sigmund, A.B. 1932.	Newark, N.J.
Bayles, Theodore Bevier, S.B. ( <i>Rutgers Univ.</i> ) 1932.	New Brunswick, N.J.
Beals, Lynn Staley, Jr., A.B. 1932.	Buffalo, N.Y.
Beck, Irving Addison, A.B. ( <i>Brown Univ.</i> ) 1932.	Providence, R.I.
Bennett, Henry Stanley, A.B. ( <i>Oberlin Coll.</i> ) 1932.	Tottori, Japan
Blodgett, James Bishop, A.B. ( <i>Oberlin Coll.</i> ) 1932.	Detroit, Mich.
Blodgett, William Henry, A.B. ( <i>Oberlin Coll.</i> ) 1932.	Detroit, Mich.
Bonnet, Philip Dirlam, A.B. ( <i>Wesleyan Univ.</i> ) 1932.	Ridley Park, Pa.
Brines, John Kincaide, A.B. ( <i>Yale Univ.</i> ) 1932.	New Brunswick, N.J.
Brooks, Samuel McLeod, A.B. ( <i>Yale Univ.</i> ) 1932.	St. Johnsbury, Vt.
Cameron, Richard Ray, A.B. ( <i>West Virginia Univ.</i> ) 1932.	Wheeling, W.Va.
Campbell, Henry Arthur, PH.B. ( <i>Brown Univ.</i> ) 1932.	Central Falls, R.I.
Cantlon, Edwin Lowell, S.B. ( <i>Univ. of Nevada</i> ) 1932.	Sparks, Nev.
Carlin, Gerald Joseph, A.B. ( <i>Coll. of the Holy Cross</i> ) 1932.	Erie, Pa.
Catlin, Daniel, A.B. ( <i>Yale Univ.</i> ) 1932.	St. Louis, Mo.
Caulfield, Thomas Edward, Jr., A.B. ( <i>Coll. of the Holy Cross</i> ) 1932.	Woburn
Cheever, Francis Sargent, A.B. 1932.	Wellesley
† Clarke, Samuel Tracy ( <i>Stanford Univ.</i> ).	Honolulu, T.H.
Congdon, Palmer, A.B. ( <i>Amherst Coll.</i> ) 1932.	Waban
Cooley, Justus Henry, A.B. ( <i>Princeton Univ.</i> ) 1932.	Dunellen, N.J.
Cummings, Harwood Warrilows, A.B. ( <i>Middlebury Coll.</i> ) 1932.	Ware
Dexter, Lewis, A.B. 1932.	Cambridge
Dorman, Daniel Bliss, A.B. 1932.	Beirut, Syria
Downs, Roger Sherman, A.B. ( <i>Williams Coll.</i> ) 1932.	Saratoga Springs, N.Y.

† Admitted on basis of three years' college work (in several cases work for degree completed).

- Drew, Robert Whitmarsh, A.B. (*Wesleyan Univ.*) 1932. Montclair, N.J.  
 Dublin, Thomas David, A.B. (*Dartmouth Coll.*) 1932. New York, N.Y.  
 Durkee, Ralph Everett, Jr., A.B. 1929. W. Hartford, Conn.  
 Egan, William Joseph, A.B. (*Boston Coll.*) 1932. Dorchester  
 Ennis, David, A.B. 1932. Lyons, N.Y.  
 Farber, Seymour Morgan, A.B. (*Univ. of Buffalo*) 1931. Buffalo, N.Y.  
 Freeman, James Voorhees, A.B. (*Washington and Lee Univ.*) 1932. Jacksonville, Fla.  
 Goldberg, Samuel James, Jr., A.B. (*Yale Univ.*) 1932. New Haven, Conn.  
 Good, Conrad Evans, A.B. (*Williams Coll.*) 1932. St. Joseph, Mo.  
 Haff, Donald Wilson, A.B. (*Lehigh Univ.*) 1932. Northampton, Pa.  
 Hall, Walter Louis Henry, A.B. (*Univ. of Maine*) 1932. Orono, Me.  
 Hammon, William McDowell, A.B. (*Allegheny Coll.*) 1932. Pittsburgh, Pa.  
 Harris, Louis James, A.B. (*Cornell Univ.*) 1932. Brooklyn, N.Y.  
 Havens, Walter Paul, Jr., A.B. 1932. Farmingdale, N.J.  
 Hayes, Donald Robert, A.B. 1932. Belmont  
 Hodges, Richard Gilbert, A.B. 1931. Cambridge  
 Hoerr, Stanley Obermann, A.B. (*Antioch Coll.*) 1932. Chicago, Ill.  
 Hogshead, Thomas Hamilton A.B. (*Johns Hopkins Univ.*) 1932. Staunton, Va.  
 Hooper, Langdon Austin, A.B. (*Yale Univ.*) 1929. Auburn, Me.  
 Humphrey, Stanley Gelbach, A.B. (*Univ. of Kansas*) 1932. Eskridge, Kans.  
 ImHof, Rudolf, A.B. (*Lehigh Univ.*) 1932. Reading, Pa.  
 Ingelfinger, Franz Josef, A.B. (*Yale Univ.*) 1932. Swampscott  
 Jimenez, Roberto Juan, A.B. 1932. Boston  
 Johnwick, Edgar Bernard, S.B. (*Univ. of Florida*) 1930. Gainesville, Fla.  
 Judd, Edward Starr, Jr., A.B. (*Dartmouth Coll.*) 1932. Rochester, Minn.  
 Keleher, Paul Corbett, A.B. (*Coll. of the Holy Cross*) 1929. Woburn  
 Keller, Karl William, A.B. 1932. Canton, O.  
 Kennard, John Harold, A.B. 1932. Newton Center  
 Klingel, Robert Wells, A.B. (*Univ. of Minnesota*) 1932. Minneapolis, Minn.  
 Kutzer, Max, A.B. 1932. Dorchester  
 Lambert, Benjamin deForest, A.B. (*Williams Coll.*) 1932. Lowell  
 Landowne, Milton, S.B. (*Coll. of the City of New York*) 1932. Brooklyn, N.Y.  
 Langacher, Karl Thomas, S.B. (*Mount Union Coll.*) 1932. Alliance, O.  
 Laudig, Guy Henry, S.B. (*Lafayette Coll.*) 1932. Nazareth, Pa.  
 Lawson, Robert Barrett, A.B. 1932. Foxborough  
 Lee, Theodore Hume, A.B. (*Yale Univ.*) 1932. W. Springfield  
 Levin, Robert Raphael, A.B. 1932. Springfield  
 Lowell, Francis Cabot, S.B. 1932. Concord  
 Lynch, Joseph Patrick, A.B. (*Boston Coll.*) 1932. Dorchester  
 Mackie, Thomas James, A.B. (*Univ. of Kansas*) 1932. Lawrence, Kans.  
 MacMahon, Charles Eugene, S.B. (*Univ. of Washington*) 1932. Seattle, Wash.  
 Macmanus, Joseph Edward, A.B. (*Fordham Univ.*) 1932. N. Pelham, N.Y.  
 Maltby, George Langford, A.B. (*Yale Univ.*) 1932. Jamestown, N.Y.  
 Mathews, William Henry, A.B. (*Colgate Univ.*) 1932. Whitesboro, N.Y.  
 McClung, Hugh Lawson, Jr., A.B. 1932. Dallas, Tex.  
 McDaniel, Lewis Tillman, A.B. (*Univ. of Texas*) 1932. Denison, Tex.  
 McGee, Charles Joseph, A.B. (*Boston College*) 1931, S.M. (*ibid.*) 1932. Brockton  
 McGirr, John Clune, A.B. 1932. Cambridge  
 Meister, Lester, A.B. (*Dartmouth Coll.*) 1932. Brooklyn, N.Y.  
 Moorman, John Dement, S.B. (*Univ. of Virginia*) 1932. Huntsville, Ala.  
 Nesbit, Clayton William, A.B. (*Williams Coll.*) 1932. Pittsfield  
 Niles, John Oliver, A.B. 1932. Somerville

- Oxnard, Edward Warren, A.B. 1932. Southboro  
 Papera, John Joseph, S.B. (*Univ. of Notre Dame*) 1932. Belleville, N.J.  
 Patricelli, Liberino, S.B. (*Univ. of Washington*) 1930, S.M. (*ibid.*) 1932. Seattle, Wash.  
 Pearson, Robert Winsor, S.B. 1931. Newton Centre  
 §Perkins, John Forbes, Jr. (*Harvard Univ.*) Milton  
 Peters, Carey Moss, A.B. (*Colgate Univ.*) 1932. Spring Valley, N.Y.  
 Peterson, Richard Urho, A.B. (*Yale Univ.*) 1932. Eveleth, Minn.  
 Pike, George Manuel, A.B. 1932. Dorchester  
 Pippitt, Richard Branch, S.B. (*Hamilton Coll.*) 1932. Port Jervis, N.Y.  
 Post, Davis Reade, A.B. (*Princeton Univ.*) 1931. E. Williston, L.I., N.Y.  
 Pritchard, Walter Herbert, A.B. (*Hamilton Coll.*) 1932. Binghamton, N.Y.  
 Record, Eugene Edwin, S.B. 1932. Brookline  
 †Regan, John Ward, 3d (*Mass. Institute of Technology*). W. Roxbury  
 Richards, Robert Ladd, S.B. (*Univ. of New Hampshire*) 1932. Dover, N.H.  
 †Ross, Joseph Foster (*Stanford Univ.*). Covina, Calif.  
 Ruffin, Marshall deGraffenried, S.B. (*Univ. of Virginia*) 1932. Roanoke, Va.  
 Rutherford, Robert Northwall, A.B. (*Univ. of Illinois*) 1932. Rockford, Ill.  
 Sarris, Spiros Peter, A.B. 1932. Lowell  
 Segel, Arnold Lester, A.B. 1932. Cambridge  
 §Sellew, Robert Cowan, Jr. (*Yale Univ.*). Canaan, Conn.  
 Sennott, Waldron Morton, A.B. (*Colgate Univ.*) 1932. Torrington, Conn.  
 Shields, Randolph Tucker, Jr., A.B. (*Washington and Lee Univ.*) 1932. Tsinan, China  
 Shull, John Coulter, A.B. (*Princeton Univ.*) 1932. Princeton, N.J.  
 Sluder, John Cochran, A.B. (*Washington Univ.*) 1932. St. Louis, Mo.  
 Smedal, Sigmund Henry, S.B. (*Northwestern Univ.*) 1932. LaCrosse, Wis.  
 Spath, William Henry, A.B. (*Lehigh Univ.*) 1932. Hoboken, N.J.  
 Stewart, Robert Alexander, A.B. (*Univ. of California*) 1929, A.M. (*ibid.*) 1930. Brockville, Ont., Canada  
 Talbot, Nathan Bill, A.B. 1932. Brookline  
 Todd, Barnard Peale, A.B. (*Dartmouth Coll.*) 1932. Lynnfield Center  
 Townsend, Irving Dinsmore, A.B. (*Univ. of Southern California*) 1931. San Jose, Calif.  
 Truex, Edward Hamilton, Jr., A.B. (*Dartmouth Coll.*) 1932. E. Hartford, Conn.  
 Ulfelder, Howard, A.B. 1932. McLean, Va.  
 Vogel, Ernest James, A.B. 1932. W. Roxbury  
 Webb, Bernard William, A.B. (*DePauw Univ.*) 1932. Bonaparte, Ia.  
 Weed, George Tilson, S.B. (*Univ. of Dayton*) 1930, S.M. (*Mass. Institute of Technology*) 1932. Tokyo, Japan  
 Weed, Milton Ralph, A.B. (*Wesleyan Univ.*) 1931. Worcester  
 Weir, David Reid, A.B. 1932. S. Euclid, O.  
 Welch, Edward James, A.B. (*Princeton Univ.*) 1932. Milton  
 †Werthessen, Nicholas Theodore (*Harvard Univ.*). Westbury, N.Y.  
 Whelan, Vincent Matthew, S.B. (*Univ. of Notre Dame*) 1932. Grantwood, N.J.  
 Whitten, James Francis, A.B. (*Univ. of Maine*) 1932. Farmington, Me.  
 Zipser, Stanley Sanford, A.B. (*Columbia Univ.*) 1932. New York, N.Y.  
 Zoll, Paul Maurice, A.B. 1932. Roxbury

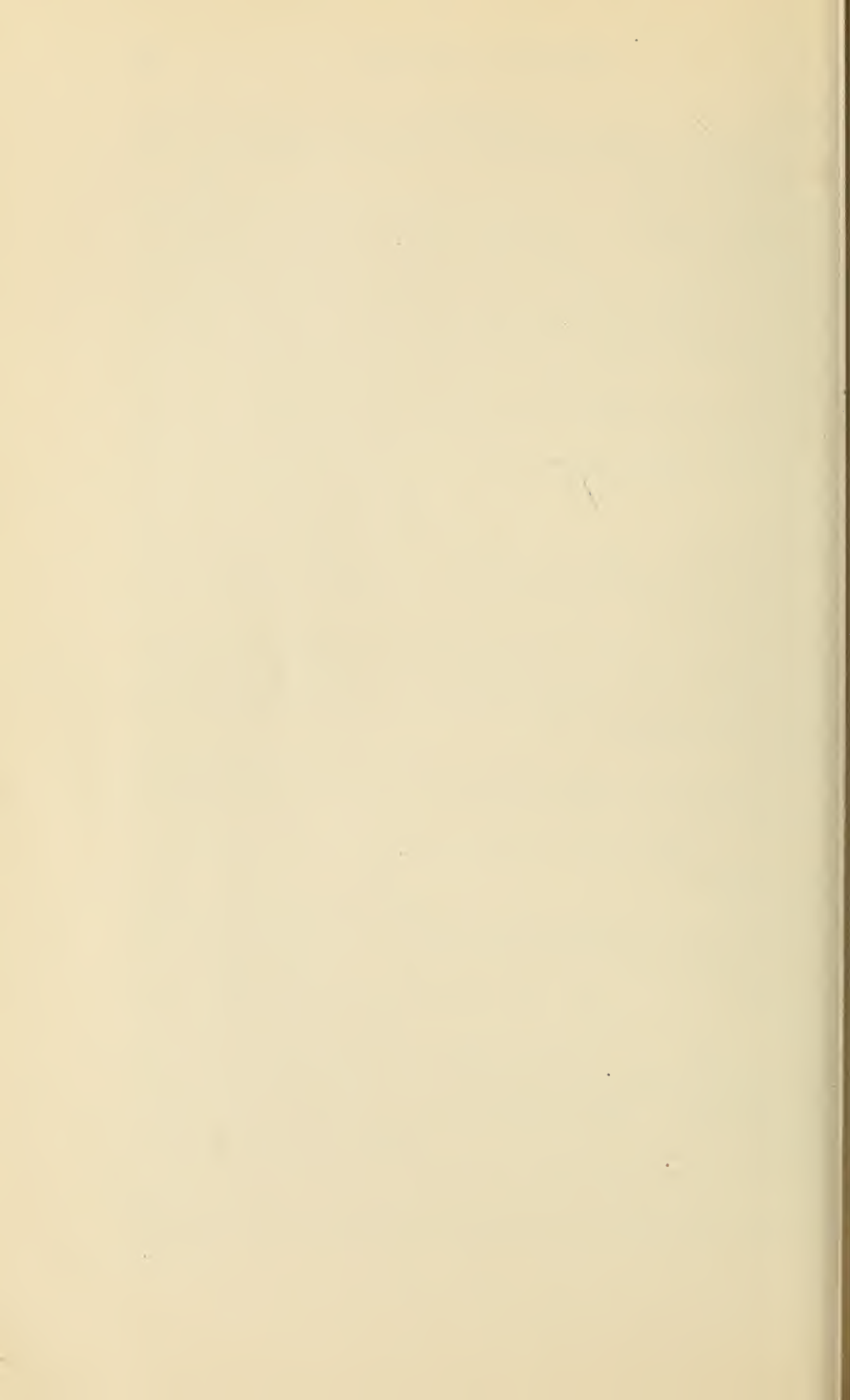
† Admitted on basis of three years' college work (in several cases work for degree completed).

§ Admitted on basis of four years' college work (in several cases work for degree completed).

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<hr/>	
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## ANNOUNCEMENT FOR 1933-34

The next session of the Medical School begins September 25, 1933. Second, third, and fourth year students are required to register in Building C Amphitheatre on this day. First year students register in the Amphitheatre in Building C of the Harvard Medical School, on Friday, the 22d of September, at 10 A.M. Students desiring to enter the Harvard Medical School in the first year class, or with advanced standing, should file an application blank, which can be obtained from the Dean's office in November.

### 1933.

- Sept. 22, Friday.* Registration of first-year students.
- Sept. 25, Monday.* **Academic Year begins.** Registration of second, third, and fourth-year students. Payment of the first instalment of the tuition fee is required on this date.
- Oct. 12, Thursday.* Columbus Day: a holiday.
- Nov. 11, Saturday.* Armistice Day: a holiday.
- Nov. 29, Wednesday.* Payment of the second instalment of the tuition fee is required on or before this date.
- Nov. 30, Thursday.* Thanksgiving Day: a holiday.
- Dec. 1, Friday.* Last day for receiving applications for the Cheever, Greene, and Haven Scholarships.

RECESS FROM DEC. 23, 1933, TO JAN. 2, 1934, INCLUSIVE

### 1934.

- Jan. 29, Monday.* **Second half-year begins.**
- Jan. 30, Tuesday.* Payment of the third instalment of the tuition fee is required on or before this date.
- Feb. 22, Thursday.* Washington's Birthday: a holiday.
- March 1, Thursday.* Last day for receiving applications for the Bullard, James Jackson Cabot, and Moseley Travelling Fellowships.

*April 2, Monday.* Last day for receiving dissertations for the Bowdoin Prizes and the Toppan Biennial Prize.

RECESS FROM APRIL 1 TO APRIL 8, INCLUSIVE

*April 19, Thursday.* Patriots' Day : a holiday.

*April 30, Monday.* Payment of the fourth instalment of the tuition fee is required on or before this date.

*May 1, Tuesday.* Last day for receiving dissertations for the Dante and Sumner Prizes.

*May 1, Tuesday.* Last day for receiving applications for Scholarships for 1934-35 (except the Cheever, Greene, and Haven Scholarships).

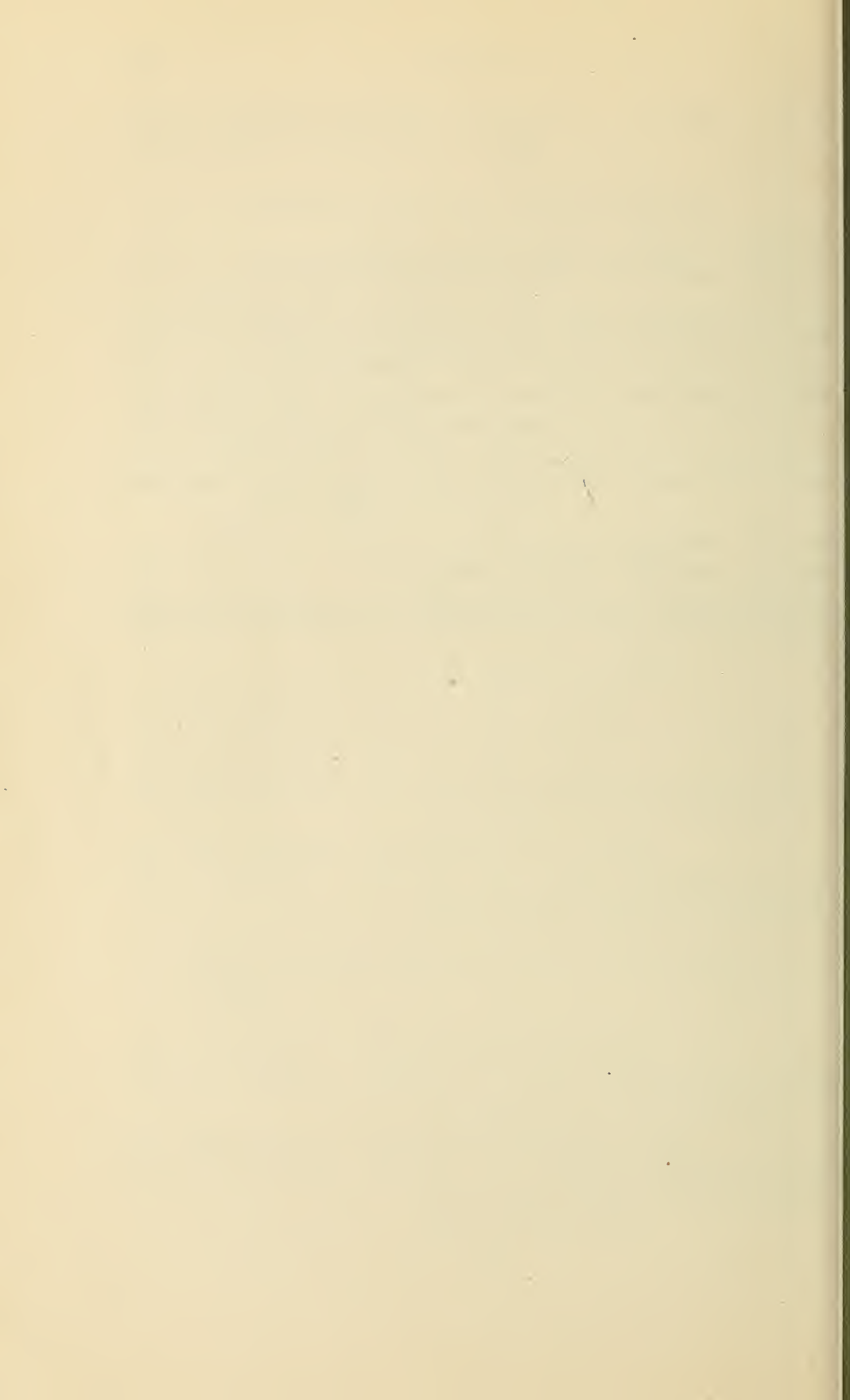
*May 1, Tuesday.* Last day for receiving applications of candidates for the degree of M.D. in 1934.

*May 30, Wednesday.* Memorial Day : a holiday.

*June 21, Thursday.* Commencement.

SUMMER VACATION, FROM COMMENCEMENT TO SEPTEMBER 23, INCLUSIVE







## OFFICIAL REGISTER OF HARVARD UNIVERSITY

*[Entered March 6, 1913, at Boston, Mass., as second-class matter,  
under Act of Congress of August 24, 1912.]*

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Issued at Cambridge Station, Boston, Mass., three times each,  
in January, February, July, August, and September; eight  
times each, in March, April, May, and June; twice each,  
in October, November, and December.

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These publications include :—

The Annual Reports of the President and of the Treasurer.  
The Annual University Catalogue.

The Annual Catalogues of the College and the several Professional Schools of the University; the Descriptive Pamphlet; the Announcements of the several Departments; etc., etc.









JUN 1965

WESBY



